

West Coast Terminals		
Inspection by Regulatory / Environmental Agency		
Date of Inspection	12/03/2009	Agency DOT Rail Division
Inspector(s) Name	James Turpin, Safety Compliance Specialist	Telephone No. 503.986.4310
District/Terminal	Portland Terminal	
Area/Station/Location	Portland Terminal	
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.		
Annual Spot Safety Inspection		
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):		
No Deficiencies noted		
List any Action To Be Taken, Who is responsible for the action and completion due date:		
N/A		
Citation or NOV Issued?	No	To Whom: N/A
(Attach copy)	Expected? No	Fine \$ 0
Reason for Issue: N/A		
Form Completed By: Tom Lyons		Title: Terminal Supervisor

Distribute to: Gabe Munoz / Long Beach
Tanya Schleyer / Long Beach
Gary Lefebvre / Portland

Shawn Gilfillan / Portland
Val Uyeda / Long Beach

Rev: 11-03-03

COP0018943

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	December 8, 2009	Agency	IRS
Inspector(s) Name	Gabe Leal Lucita Holland	Telephone No.	
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken. The inspectors took samples for four diesel tanks - 3761, 4318, 2784 & 2916.			
Took dyed sample from a truck which had loaded red dyed product at the rack. One sample from each compartment. Verified last three receipts for each diesel tank.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s): None noted.			
List any Action To Be Taken, Who is responsible for the action and completion due date: N/A			
Citation or NOV Issued? Yes or <u>No</u> (Attach copy)	Expected? Yes or <u>No</u>	No	To Whom: N/A
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to: Tanya Schleyer, Gabe Munoz, Shawn Gilfillan, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Valerie Uyeda as appropriate

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Rev: 10-27-98

COP0018944

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	January 28, 2010	Agency	United States Coast Guard
Inspector(s) Name	Fred Sayers Brad Buselli	Telephone No.	503-240-9333
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Annual Coast Guard Safety & Security Audit. Inspected FSP, ERP, Security & Spill Drills, Maintenance Records, Training, etc.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None noted.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
N/A			
Citation or NOV Issued?	Yes or <u>No</u>	No	To Whom: N/A
(Attach copy)	Expected? Yes or <u>No</u>	No	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to: Tanya Schleyer, Gabe Munoz, Shawn Gilfillan, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Valerie Uyeda as appropriate

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Rev: 10-27-98

COP0018945

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	3/2,3,4, 2010	Agency	IRS
Inspector(s) Name	Renee Kramer Gabe Leal Jeff Thompson	Telephone	No. 707- 535-3899 (Renee)
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected)			
IRS Examination.			
Truck rack BOL's Gauge book tickets Various reports from G3 LOP's – Pipeline Deliveries & Receipts/Barge Loading COA's Bio Purchase Specifications Maps of the terminal & tanks			
Took tank samples from 4259 and black oil tanks			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None noted.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
N/A			
Citation or NOV Issued? Yes or <u>No</u> (Attach copy) Expected? Yes or <u>No</u>	No No	To Whom: N/A	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to: Tanya Schleyer, Gabe Munoz, Shawn Gilfillan, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Valerie Uyeda as appropriate

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Rev: 10-27-98

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West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	March 12, 2010	Agency	Oregon Department of Energy
Inspector(s) Name	Deanna Henery Yumei Wang	Telephone No.	
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Addressed contingency planning in order to ensure we have effectively planned as best we can to supply fuel to the states emergency and essential service providers in the event of fuel disruption due to an earthquake.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None noted.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
N/A			
Citation or NOV Issued? Yes or <u>No</u> (Attach copy)	No No	To Whom: N/A	
Expected? Yes or <u>No</u>	No		
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to: Tanya Schleyer, Gabe Munoz, Shawn Gilfillan, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Valerie Uyeda as appropriate

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Rev: 10-27-98

COP0018947

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	5/21/2010	Agency	Oregon Dept. of Geology and Mineral Industries
Inspector(s) Name	Yumei Wang	Telephone No.	971-673-1551
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Oregon Department of Geology and Mineral Industries Geotechnical Engineer Yumei Wang reviewed the terminal earthquake planning with Division Engineer.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
No discrepancies. Suggested earthquake preparedness be considered incorporated in all future projects & assignment of one area in the terminal as a recovery area.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Scott Edwards will review Ms Wang's proposal			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to:

Nancy Rubio, Gabe Munoz, & Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018948

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	6/10/2010	Agency	Oregon Dept. of Agriculture
Inspector(s) Name	Nathan Gardner		Telephone No. 503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Our Operator drew three one-quart sample from biodiesel tank (4255) for State Inspector. State Inspector was also provided with the last test sample result from Inspectorate.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
N/A			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Nancy Rubio, Gabe Munoz, Tom Tompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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West Coast Terminals			
Inspection by Regulatory / Environmental Agency			
Date of Inspection	<i>06/25/2010</i>	Agency	<i>United States Coast Guard</i>
Inspector(s) Name	<i>Petty Officer John Newcomer</i> <i>Petty Officer Jeremy Possey</i>	Telephone No.	<i>503.240.9333</i>
District/Terminal	<i>Portland Terminal</i>		
Area/Station/Location	<i>Marine Dock/Terminal Security</i>		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
<i>Spot Check – Shore Valve Area</i>			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
<i>No Deficiencies noted</i>			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
<i>N/A</i>			
Citation or NOV Issued?	<i>No</i>	To Whom:	<i>N/A</i>
(Attach copy)	Expected?	<i>No</i>	Fine \$ <i>0</i>
Reason for Issue: <i>N/A</i>			
Form Completed By:		Title:	
<i>Tom Lyons</i>		<i>Terminal Supervisor</i>	

Distribute to: Gabe Munoz / Long Beach
Nancy Rubio / Long Beach

as Req'd: Tom Thomson / Long Beach
Val Uyeda / Long Beach
Gary Lefebvre / Portland

COP0018950

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	9/8/2010	Agency	Oregon Dept. of Geology and Mineral Industries
Inspector(s) Name	Nathan Gardner		Telephone No. 971-673-1551
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Mr. Gardner took his quarterly biodiesel sample and discussed upcoming changes to the State of Oregon biodiesel administrative rules.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Sample taken. Will review results			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By:	Tom Lyons		Title: Terminal Supervisor

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018951

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	11/16/2010	Agency	City of Portland Environmental Services
Inspector(s) Name	Eric DeBerry Tim Dean	Telephone No.	503-823-5538 503-823-5537
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Mr. Eric DeBerry, Permit Manager, Industrial Pretreatment Program and Mr. Tim Dean, Permit Manager, Industrial Stormwater Section, performed the Annual on-site inspection of the facility and the facilities inspections and testing.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None Noted.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom:	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	11/30/2010	Agency	Oregon Department of Agriculture
Inspector(s) Name	Nathan Gardner		Telephone No. 503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
ConocoPhillips Operator drew a three quart samples from biodiesel tank (4255) for the State Inspector. State Inspector was also provided with the last test report from Inspectorate.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom:	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018953

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	1/11/2011	Agency	US Coast Guard
Inspector(s) Name	Fred Sayers, Jeff Ramos		Telephone No. 503-240-9333
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Annual Coast Guard Safety & Security Audit.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom: No	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	2/16/2011	Agency	US Coast Guard
Inspector(s) Name	Fred Sayers, Jeff Ramos		Telephone No. 503-240-9333
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Dock Transfer Monitor Visit.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom:	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Tompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018955

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	3/2/2011	Agency	Oregon Department of Agriculture
Inspector(s) Name	Nathan Gardner		Telephone No. 503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
ConocoPhillips Operator drew three quart samples from downstream of the biodiesel filters for the State Inspector. State Inspector requested and received the C of A from the last railcar.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		No	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	3/17/2011	Agency	US Coast Guard
Inspector(s) Name	Fred Sayers, Andrew Dryer	Telephone No.	503-240-9333
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Dock Transfer Monitor Visit.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued?	No	To Whom:	
(Attach copy)	Expected? Yes or No	No	
Reason for Issue:			
Form Completed By:		Title:	
Tom Lyons		Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Tom Tompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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7ed ID 73-0400345

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	May 6, 2011	Agency	Internal Revenue Service
Inspector(s) Name	Lucita A. Holland	Telephone	No.949-637-5094
District/Terminal	West Coast Terminals		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken. Requested samples of dyed diesel and clear diesel from truck rack and copies of the most recent Olympic Pipeline ticket and bio diesel BOL/COA.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s): None made.			
None noted. This was a compliance visit.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
N/A			
Citation or NOV Issued? Yes or No	No	To Whom:	N/A
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By:	Tom Lyons <i>Tom Lyons</i>	Title:	Terminal Supervisor

Distribute to: Gabe Munoz, Lyle Hawsey, Gary LeFebvre (Lubes Supervisor)
Bary Duffin, Valerie Uyeda as appropriate

COP0018958

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	5/26/2011	Agency	US Coast Guard
Inspector(s) Name	Dare Gruiley, Brad Buselli	Telephone No.	503-240-9333
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Dock Transfer Monitor Visit.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom:	
Reason for Issue:			
Form Completed By: Tom Lyons		Title: Terminal Supervisor	

Distribute to:

Gabe Munoz. Also, Lyle Hawsey, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018959

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	6/30/2011	Agency	Oregon Department of Agriculture
Inspector(s) Name	Nathan Gardner		Telephone No. 503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
ConocoPhillips Operator drew three quart samples from downstream of the biodiesel filters for the State Inspector. State Inspector requested and received the C of A from the last railcar.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to:

Gabe Munoz. Also, Tom Tompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018960

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	7/19/11	Agency	State of Oregon Dept. of Agriculture Department of Weights and Measures
Inspector(s) Name	E.R. Veria N. Gardner	Telephone No.	503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
Inspection of two large truck scales 120,000 lb.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
Replaced seal indicator			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued?		No	To Whom:
(Attach copy)	Expected?	Yes or No	No
Reason for Issue:			
Form Completed By:		Gary LeFebvre	Title: Plant Manager Lubes

Distribute to:

Gabe Munoz. Also, Tom Tompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018961

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	8/25/2011	Agency	EPA
Inspector(s) Name	Richard Franklin	Telephone No.	503-475-4178
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
SPCC Plan, FRP			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
The inspector verbally reviewed certain items he noted during his inspection. See Gap Plan attachment.			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Using his verbal observations, the Terminal developed a list of Action Items. See attachment			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	Maybe		
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

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West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	9/7/11	Agency	State of Oregon DEQ NW Region
Inspector(s) Name	Bob McKay Environmental Specialist	Telephone No.	503-229-5048
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
3 Year Inspection/Audit of Underground Storage Tanks. Included physical inspection of equipment, review of permits, training records, cathodic protection and line testing/monitoring documentation and results, proof of financial responsibility.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
No Deficiencies			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued?		No	To Whom:
(Attach copy)	Expected? Yes or No	No	
Reason for Issue:			
Form Completed By:		Gary LeFebvre	Title: Plant Manager Portland Lubricants

Distribute to:

Gabe Munoz. Also, Lyle Hawsey, Gary LeFebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018963

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	9/15/2011	Agency	Oregon Department of Agriculture
Inspector(s) Name	Nathan Gardner		Telephone No. 503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
ConocoPhillips Operator drew three quart samples from downstream of the biodiesel filters for the State Inspector. State Inspector requested and received the C of A from the last railcar.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued?	No	To Whom:	
(Attach copy) Expected? Yes or No	No		
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

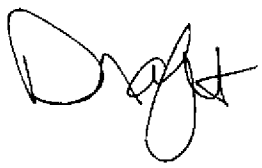
COP0018964

West Coast Terminals			
Record of Meeting or Inspection by Regulatory / Environmental Agency			
Date of Meeting	10/12/2011	Agency	Oregon Department of Agriculture
Inspector(s) Name	Nathan Gardner	Telephone No.	503-986-4670
District/Terminal	Western Division		
Area/Station/Location	Portland Terminal		
Nature of Inspection: (Identify files, plans, PTO's, facilities, equipment, etc. inspected) List any documents inspected. List documents surrendered. List any samples taken.			
ConocoPhillips Operator drew quart samples from downstream of the biodiesel filters for the State Inspector. State Inspector requested and received the C of A from the last railcar.			
List any Discrepancies Noted, Requests, or Suggestions made by Inspector(s):			
None			
List any Action To Be Taken, Who is responsible for the action and completion due date:			
Citation or NOV Issued? No			
(Attach copy) Expected? Yes or No		To Whom:	
Reason for Issue:			
Form Completed By:	Tom Lyons	Title:	Terminal Supervisor

Distribute to:

Gabe Munoz. Also, Tom Thompson, Gary Lefebvre, (Lubes Supervisor),
Barry Duffin, Valerie Uyeda as appropriate.

COP0018965



**MINUTES OF MEETING
WILLBRIDGE TERMINALS
JANUARY 16, 1997**

A meeting was held with the responsible parties (RPs) of the Willbridge Terminal sites and the Department of Environmental Quality (DEQ) at their offices to formally introduce the RP's new consultant (Pacific Environmental Group, Inc.) and discuss a new project approach and schedule of activities. An agenda package that included the identification of new tasks and schedule, and proposed revisions to the sampling of onsite monitoring wells was presented at the meeting. The following were present at the meeting:

Rene White, Chevron USA	Lance Geselbracht, PACIFIC
Martin Cramer, 76 Products Co.	Ward Crell, PACIFIC
Dan Truzzolino, 76 Products Co.	Kevin Freeman, PACIFIC
Irv Jenkins, Shell Oil Co.	Jill Kiernan, DEQ
Eric Hansen, Shell Oil Co.	Mavis Kent, DEQ
Andrew Holbrook, GATX Terminals	David St. Louis, DEQ

PACIFIC discussed the "bullet" items contained in the Agenda and the following items were agreed upon by all parties:

- Mechanical bailing will be eliminated and manual bailing will be conducted on wells containing SPH.
- Next sampling event will have analytical methods changed for some analytes as requested in Agenda and a future submittal will be sent to DEQ proposing modification the current sampling schedule of all three site's monitoring wells.
- The schedule as presented appears satisfactory to the DEQ.

After presenting the "new" approach to remediation of the Terminals; manage with alternative point of compliance based upon ecological risk assessment, the DEQ had the following comments:

- Need to look at future land use closely during the RI process and determine what future water resources are needed based upon that land use.
- General guidance is still being developed as part of HB3352 rulemaking that will address future use of groundwater resources. We need to address current and reasonable likely future use of groundwater at the site.
- Look at the RI\FS completed for the Hoyt Street property, and sediment samples have been collected for the Rhone Poulenc site. DEQ is currently reviewing the draft RI and risk assessment for Hoyt Street.
- Consider Salzman Creek when looking at potential receptors for the site, not just the Willamette River.
- Be careful about selecting remedies ahead of completing the RI\FS.
- Recreational and subsistence fishing occurs in Multnomah Channel according to DEQ.
- Be sure to identify "hot spots" on the site as part of RI; these areas need to be addressed.

The meeting was adjourned with submittals identified in the project schedule due as scheduled.

Attached: Agenda
 Schedule

MAVIN KENT, DANA ST. LEWIS, JILL KIRKMAN - DEQ
 MR & DAN TUNZELING - NO PRODUCTS
 JIM JENKINS & ERIC HANSEN - SHRE
 RENE WATTE - CHEVRO
 ANDREW HOLBROOK - GATX
 LANCE CASARDO, LARRY CARR, KEVIN FERGUSON - PEG

WILLBRINGER MO. w/ DEQ
 JANUARY 16, 1997

APPENDIX - STRATEGY

1. RISK BASED CORRECTIVE ACTIONS (RSCA) & ACT. PS. OF COMPLIANCE (APC) - MS 3352
2. MANAGE SITE TO PROTECT KEY RESOURCES
3. TREAT THE SITES THAT CONTRIBUTE TO CONTAMINATION
4. ESTABLISH THREE LEVELS AT PERMITS WELLS
5. CONTINUE SPH REMOVAL PROGRESS BUT ELIMINATE MECHANICAL RECOVERY
6. WIN OR USING ACQUIS & EXIST FORMATS FOR DATA BASE
7. MONITORING WITH PROGRAM
 - 2 YRS MO/WATER LEVELS & 1/4LY CHEMICAL ANALYSIS
 - DROPPING WELLS IN AND OUT TO PROTECTANCE & PRESENCE OF SPH
 - ADD REIN & METERS & CHANGE PATH ANALYTICAL FROM 8310 TO 8200 SITES
 - REDUCE MONITORING TO 1/4LY FROM MONTHLY
 - MONITOR DURING OF SPH MONITORING w/ EST. OF QUANTITY FROM EACH WELL AS WELL AS TOTAL QUANTITY AS EACH EVENT
 - DO PUMP INTO PERMITS TANK

8. RI/FS

- WILL BEGIN W.P. PREP IMMEDIATELY & SUBMIT DRAFT IN APRIL/MAY
- CONDUCT ADDITIONAL WORKS IN SUMMER
- PREPARE RI DRAFT NOV.
- BEGIN FS IN DECEMBER
- USS-ABR WILL NOT APPLY RSCA TO SITES
- BEGIN RA IN SEPT.
- MAY INCLUDE INGRESS OF POSSIBLE OTHER RPs IN RI - POSSIBLY DISCOVER
- RISK ASSESSMENT
 - DEQ INDICATES NEED TO ACCURATELY DOCUMENT DISTRIBUTION OF FUTURE LAND & WATER USES → DEQ CURRENTLY NEGOTIATING w/ ROMAN PLANE ON SUCH ISSUES FOR AREA NORTH OF WILLBRINGER → ROMAN PLANE ALSO CONDUCTING FIELD RA
 - PEG WILL ALSO CONDUCT HUMAN HEALTH RA
- APC'S TYPICAL ARE DETERMINING AS TO OF FS → DEQ CAUTIONED NOT TO DETERMINE LOCATIONS EARLY ON

WILKINSIDE MTS w/ DFG
JANUARY 16, 1997

Disturbance Action Plan

- UTILIZE EXISTING TRENCH TO FURTHER RESEARCH
- INSTALL WEIR AROUND CURRENT & INST. STORM PIPES - PROBABLY
- LOOK AT PERMANENT SIGNATURE (FILL IN) FOR PROPOSED MIGRATION PATHS & IDENTIFY ADDITIONAL INTERIM ACTION
- CURRENT TRENCH INTENDS TO INTEREST MIGRATION ALONG OLD SLOPE
- CONTINUE TO REMOVE SOFT FROM TRENCH AND POSSIBLY ADD AIR SPACING DURING IT'S WORK PERIOD
- MAY INSTALL PASSIVE BARRIER IN SELECTED AREAS THAT CONTINUE TO PRODUCE SIGNIFICANT SPH AND REMOVE MORE FREQUENTLY THAN MONTHLY
- WILL INCLUDE NEW 8" TO 10" SINS MATTER & PLANT 8 METERS IN NEXT PHASE

Miscellaneous

1. JILL STATED NEED TO CHARACTERIZE SEDIMENTS & STRIKE LITHOLOGY AS PART OF RE

2. SEDIMENTS

- NEED TO INCLUDE RE NOTES w/ DREDGING PROGRAMS FOR UNGATE & CHANDEL
- RIVER PORT DREDGING WILL BEGIN THIS SUMMER
- PDC TO PRODUCE MINI-SCALE PLAN FOR SEDIMENTS ONCE PLANS ARE FINALIZED

3. NEED TO ADDRESS SOUTHERN LITHOLOGY IN RE RESEARCH WORK

- RUSSIAN & ARAB (PARTICULARLY AT LONDON) HAVE BEEN FISHING IN MOUNTAINWAT FOR CRAB & OTHER SPECIES NOT NUMEROUS LANDINGS EARLY &

4. ADOL: → NEED TO PRODUCE ADOL DO NOT APPEAR TO BE AVOIDING RESEARCH IMPACTS TO AREA FOR NOT SPOTS

- NEED TO DISCUSS w/ DFG DETAILED APPROACH AS IT MAY NOT BE APPROPRIATE FOR WILKINSIDE → NEED TO LOOK AT RA & FUTURE WORK
- WILL BE ADDRESSED IN RE
- SUMMARY ON JANUARY 30 FOR RA &

5. DFG STILL LOOKING AT MIGRATION FROM STATE ONTO GS PROOFING

6. DFG WILL BE SENDING INVITES TO PDC

7. PDC WILL INTERVIEW DIRECTOR w/ JILL FOR TIME TO TIME & WILL SEND SUMMARY REPORT

8. NEW HARBOR - LAMBER & SOCIAL-RESEARCH TO TRAINING SERVICES IN NEW PAGES

After RESEARCH

1. PDC WILL HOST RE RE OF ALL PAYING INDICES & SUBSEQUENT CONVERSATION w/ DFG & PARTICULARLY ANDREW & MYSELF TO ATTEND & WILL E-MAIL SUMMARIES OF ALL DISCUSSIONS

NEWBORN MISC. 4/03/00
JANUARY 16, 1977

PASS MISC (Contd.)

- * NEED TO LOOK AT NICKOL NARRING CONSULTANT
- PEG TO PROVIDE PRESENT FOR FELLER AT 12:45 → NEXT PHASE
- PEG TO PROVIDE PROPOSAL FOR HANDLING PERSONS → 9/10-1/11
- * NEED TO PROVIDE PEG WITH LOCATIONS FOR CONNECTION TO OLY & STAPL
- NEED TO EST AFF TO PEG & PEG WILL BILL MONTHLY
- PEG WILL PASS THROUGH DEC OVERSIGHT COSTS BUT NEED QUICK PAYMENT
- PEG WILL PROVIDE FROM PROPOSED THROUGH DATE 9 & FOS FOR 10-0

**Willbridge Terminals
DEQ Meeting Agenda
January 16, 1997**

Introduction

- Review PACIFIC Team

Overview of Our Project Approach

- **Manage the facility at risk levels protective of human and ecological health using RBCA and APOC methods**
- Revise quarterly monitoring program
 - ◆ Eliminate wells in center of facility
 - ◆ Add wells at facility boundary
 - ◆ Add RCRA 8 metals to comply with consent order
 - ◆ Change PAH analytical method from 8310 to 8270 SIMS to reduce and stabilize detection limits
 - ◆ Monitor water levels on quarterly basis (reduce from monthly)
 - ◆ Begin abandonment of unused wells
- Eliminate mechanical bailing program and replace with manual removal of SPH
- Complete focused RI/FS
 - ◆ Complete investigation of facility
 - ◆ Utilize RBCA guidelines for human health risk assessment
 - ◆ Begin tiered ecological risk assessment; complete Tier I and II as part of RI
- Implement localized Interim Actions

Interim Action Plan

- Implement localized Interim Actions designed to mitigate hydrocarbon seeps
 - ◆ Center IAs on sources of known hydrocarbon seeps
- Submit plan to DEQ with proposed locations
- Continue with SPH removal

Schedule and Project Deliverables

- Continue with quarterly sampling and reports
- Perform "hot spot" SPH removal on monthly basis
- Submit IAP in April
- Begin construction of IAs in June
- Submit draft RI workplan in May, final RI workplan in July
- Begin RI field investigation in August, complete in October
- Submit draft RI in December

DEQ WILLBRIDGE MEETING 1/16/97

<u>ATTENDEE</u>	<u>COMPANY</u>
WARD CRELL	PACIFIC ENVIRONMENTAL GROUP
Rene White	Chevron
MAVIS D. KENT	DEQ - NWR
MARTY CRAMER	UNOLAL - 76 PRODUCTS CO.
DAN TRUZZOLINO	" "
Joe Jenkins	Shell Oil Products Co. - Environmental
ERIK HANSEN	SHELL DEVELOPMENT CO
ANDREW HOLBROOK	GATX TERMINALS
Jill Kiernan	DEQ
Kevin Freeman	Pacific Env. Group
Lance Goodrich	"
DAVE ST. LOUIS	DEQ

Cramer, Marty A.

From: Kevin Freeman
To: jill.a.kiernan
Cc: wmpomac; rwht; erik_hansen; GSLBRL; CRELLW
Subject: Metals Sampling Procedure for Willbridge
Date: Tuesday, January 21, 1997 4:26PM

Jill -

This is to confirm our conversation of January 21, 1997 regarding groundwater metals sampling at the Willbridge facility in January. During the January sampling event, 43 wells are to be sampled for RCRA 8 metals. Samples for TOTAL metals will be collected for all 43 wells. As agreed, 10 percent of the sampled wells will be analyzed for DISSOLVED metals, approximately 10 wells. These wells will be randomly selected across the facility. The total and dissolved metals concentrations for these 10 wells will be compared to determine the future metals sampling program.

If you have clarifications to this, please e-mail or call me at 639-6305.

Kevin Freeman



PACIFIC
ENVIRONMENTAL
GROUP, INC.

FACSIMILE TRANSMITTAL

DATE: 3/7/97 PROJECT: _____

TO: Dan Truzzolino FAX: 714-428-8031

76 Products

FROM: Kevin Freeman

IF YOU HAVE ANY PROBLEMS RECEIVING THIS FACSIMILE, PLEASE CALL (503) 639-6305

SHEETS TO FOLLOW COVER PAGE

1

COMMENTS:

A copy of an e-mail I attempted to send
to you. The error is ours and will
be corrected in the future

Kevin Freeman

Kevin Freeman

From: Kevin Freeman
To: Chevron - Rene White; Unocal - Dan Truzzolino; Unocal - Marty Cramer; Shell - Irv Jenkins; 'Shell - Erik Hansen'; GATX - Andrew Holbrook
Cc: Lance Gesebracht; Ward Crell
Subject: Willbridge Draft Fall 1996 Quarterly Report
Date: Thursday, March 06, 1997 5:03PM
Priority: High

Sirs,

The draft Fall 1996 Willbridge Facilities Quarterly report will be issued to you for comment on Monday, March 10. The delay into March is due to data transfer and (attempting) to track down missing information. The Winter 1996/1997 report is on target for April. Sample analysis is complete and report production is in progress.

The report text will be e-mailed and faxed, followed by a hard copy complete with tables and figures. October 1996 water level and analytical tables will be included in the fax. Comments on the report can be e-mailed to me or hard-mailed and faxed or mailed.

The next item to be submitted to you will be a draft proposal to DEQ for sample number reduction and analytical methodology. Based on January 1997 sampling results, we will propose to field-filter all metals (submit only dissolved metals for analysis).

If there are any questions or comments, please call e-mail or call me, (503) 639-6305.

Thanks,

Kevin Freeman



76 PRODUCTS COMPANY

March 14, 1997

ADC 0922
ACC/ CORRESP.

Mr. Eric De Berry
City of Portland
Environmental Services
1211 SW 5th Avenue, Room 800
Portland, OR 97204-3713

PETER L. SCHNIEDERS
Manager
Northwest Operations Area
Portland Terminal

Treated Groundwater Sample
Analysis NPDES Permit 400-012

Dear Mr. De Berry:

Per Unocal's letter February 28, 1997 please find attached the Certificate of Analysis of samples relating to the operation of the ground water remediation system. The two samples were tested for BETX compounds per EPA method 602. One sample was taken upstream of the carbon filter units; another was taken downstream of the carbon filter units.

The system continues to operate at approximately 1,000 gallons per day and has recovered approximately 40 gallons of separate phase liquid to date.

If you have any questions do not hesitate to call me at (503) 248-1530 or Marty Cramer at (503) 248-1517.

Very truly yours,

/kjp
Attachment

cc: M.A. Cramer
S.B. Gilfillan
K.J. Penningroth
R.W. McGowne
J.W. Sherman
M.A. Smith

□

5528 Northwest Doane Avenue
Portland, Oregon 97210
PH (503) 248-1530
A Unocal Company

COP0018976



CERTIFICATE OF ANALYSIS

CLIENT: UNOCAL CORPORATION - PDX
PO BOX 76
PORTLAND OR 97207

PHONE: (503) 248-1565
FAX: (503) 248-1519

DATE SUBMITTED: 03/07/97

PO#:

PROJECT NAME: WASTE WATER ANALYSIS

CI SAMPLE #	CLIENTS ID#	DATE	TIME	DESCRIPTION
970328-001-01	SEP EFF #1	03/07/97	1235	SEPARATOR DISCHARGE SAMPLE
970328-002-01	CARBON EFF #1	03/07/97	1245	CARBON VESSEL #2 DISCHARGE SAMPLE

REPORT DATE: 03/11/97

REPORT NUMBER: 970328

PAGE: 1 OF 1

SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
Untreated						
SEP EFF #1						
970328-001-01	BTEX 2	BENZENE	45.	PPM	0.1	Jacob I.
	EPA 602	ETHYLBENZENE	5.8	PPM	0.1	
		TOLUENE	84.	PPM	0.1	
		M- & P-XYLENE	22.	PPM	0.1	
		O-XYLENE	11.	PPM	0.1	
		SURROGATE RECOVERY	95%	% REC	80%-120%	
Treated						
CARBON EFF #1						
970328-002-01	BTEX 2	BENZENE	ND	PPM	0.0005	Jacob I.
	EPA 602	ETHYLBENZENE	ND	PPM	0.0005	
		TOLUENE	0.0007	PPM	0.0005	
		M- & P-XYLENE	0.0007	PPM	0.0005	
		O-XYLENE	ND	PPM	0.0005	
		SURROGATE RECOVERY	99%	% REC	80%-120%	

REVIEWED BY:

Richard D. Reid
Richard D. Reid - Laboratory Director

Columbia Inspection, Inc. 7133 N Lombard St. - Portland, OR 97203 (503) 286-9464 Fax (503) 286-5355

COP0018977

PORTLAND PRP MEETING

4/20/97

HISTORY - WOLF

THROUGH CUL & DITCH ENCOUNTERED AT FRONT & REAR DURING SEWER INSTALLATION
OILY WATER IN STORM SEWER TROWN UP NEAR WAREHOUSE - QUITS A DIS
THOUGHTS OIL NEAR CHANNEL AT TOP OF PEAK WAS BLACK OIL
MOST OIL RECOVERED WAS AT OLD 27" WASTEWATER DISCHARGES TO RIVER - LITTLE
OIL WAS BEING RECOVERED AT THE MAYHALL AT PEAK & FRONT
- MIX BETWEEN DIESEL & GASOLINE OIL → SUGGESTING IT WAS COMING FROM PIPES
AFTER CIRCULATING UP 27 in - PIPES WERE AT RIVER & PROBABLY MUST STOPPED
WASTEWATER

E & F

JUST PREPARING EEO - RA BUT CAN SUPPORT HUMAN HEALTH

SEVERAL PROBLEMS CONNECTED AT ALPHA SITES FOR DEQ

SAY THERE IS NO CONFLICT OF INTEREST w/ WORKING FOR DEQ ON THE AREA OF
IMPACTS FROM THE VARIOUS SITES OVERLAPPING

RA PROBLEMS → DEQ ONLY HAS GUIDELINES ON TIER I → OTHER THINGS TO COME

- DETERMINE ALL RECEPTORS & ASSOCIATED PATHWAYS
- WHAT CHEMICALS PRESENT, ASPECTS OF RECEPTORS, AND POTENTIAL IMPACTS
- WITH THE AND EXISTING TERRITORIAL EXPOSURES TO IND. BODIES
- LOCAL FISHES AND SEDIMENT & W.Q. NEAR CATCHES & COMPARE TO STATE & FED

GUIDELINES - USE MODELS

- IF POTENTIAL IMPACTS IDENTIFIED, EXPAND SAMPLING EFFORTS AS PART OF
TIER II → SEDIMENT FOR ANALYSIS PART OF TIER III
- EEO WILL PROVIDE DEQ GUIDELINES

DATA NEEDS

- SOIL DATA AT TESCO & CANNERY - 10 & 12 BEING FIRST SITE
- SEDIMENT & W.Q. DATA MORE SHALLOWS & SALTWATER CHANNEL (SOME LOCAL DATA)
- C.W. CHANNEL ON THE STORM

Portland PRP MTD.

4/22/97

Budget

Tasks 1, 2 & 3 → under budget

4 & 6 → will be under

7 → IAP will be 97-101K over due to DEQ invoices & additional
invest. work - investigations

4 → RI looks O.K.

Budget for 1997 was rough est. may be a bit low

Schedule

Approx. 1-1 1/2 mo. behind schedule

- So far no hard from DEQ, PRG has talked to Jim but hasn't said anything

IAP

1. Put dye in U-4 and other wells on Citivren property to see if it
appears in river & other wells around 37" & 60" lines
2. Cutoff wall in trench around 60" w/ inclines pipe and ^{HDPE} VEE, wall
on either side
3. Look for air sparging in hydraulic trench
4. Will also look at building cutoff wall in around 37" line

**Willbridge Terminals
RP Meeting Agenda
April 22, 1997**

Introductions

Current Activities at the Site

- September - November 1996 Quarterly Report submitted to DEQ
- December 1996-February 1997 Quarterly Report submitted to RPs next week - *START CHANGING TO FORMAT*
- SPH removal on monthly basis - *1 CASE + 4 LINEAL FEET → MORE HIGHER SPREADING PRODUCT INCLUDING A FEW AT CHAINWEND*

RI Workplan

- Introduction of Ecology & Environment (Peter Geiger and Tom Angus)
- Propose meeting between PACIFIC, E&E, and DEQ to discuss RI Workplan
- Determined data gaps at the site → *MAY HAVE TO DO SOME SOIL INVESTIGATION AT RISK 2 CHECK FOR HC & METALS IN SOILS AS NO INFO.*

On-going Activities

- Field Sampling Plan reduction/amendments proposal - *COMING*
- Well rehabilitation proposal - *SURFACE CONSTRUCTION WORK HERE*
- Generation of new base map - *COMPLETED MID - MAY*
- Data base construction status - *UP & RUNNING → REDESIGNED CURRENT TABLES*
- PRP search status - *NEAR LINE DITCHES DATA FROM OLYMPIA & SINOATITE NO DET DATA*

Interim Action Workplan

- Discussion of Conceptual IA Workplan

Administrative Issues

- Budgets
- Billing Procedures
- Schedules
- Individual client tasks

WILSONS RIVER MTO

6/12/97

BRUCE WHITE

ANDY HOLBROOK

LANE GRUBB

KEVIN FREEMAN

1. MEET AGAIN MID-JULY TO DISCUSS COMMENTS FROM DEQ ON I/A AND RI/FS
FINAL

REVIEW THE RI/FS APPROVAL
- MEETING WITH VERNAL ~~BE~~ DISCUSSED ^{CONCERNS} OF DEQ ON MID-JULY

- FINAL RI/FS WORK PLAN WILL BE PREPARED FOLLOWING MTO

- DO NOT ANTICIPATE DISSOLVING THE EXISTING RIVER TIE-OUT POSSIBLY FOR CO "A & B"
SERIES & POSSIBLY TAKE AND HOLBROOK SLOTH.

- MAY NEED TO REQUEST MODIFICATION OF C.O. TO REFLECT NEW DEQ
RI/FS ^{REVISION} GUIDELINES

- DEQ WILL TRY TO DEVELOP ^{GOOD} RATIONALE FOR 300 FT SPACING TO JUSTIFY
THAT APPROACH AND SPACING

- WILL ARGUE THAT DATA RELATES TO TANK 3411 SPILL IS NOT SEPARATE FROM
GENERAL R.A.

- MAY ALSO NEED TO JUSTIFY VERTICAL SAMPLING INTERVAL

- NEED TO GET JILL TO REFER TO LINDA CHRY. ABOUT INKUS AT OFFICE
WILL ONLY →

- DEQ WILL CHECK W/ KATE ON BACKGROUND SAMPLING

- LANE TO PROVIDE ~~DATA~~ PROFILES ON I/A & RI/FS FIXED ACTIVITIES

- MAY INQUIRE W/IN 1 WK W/ EXPLANATION - TERM AT CURRENTLY \$8K OF DEQ
COSTS

- PROPOSED W/IN TWO WEEKS

	Joint	Chevron	Tosco	GATX	
Soil Investigation					
Number of Borings		12	15	24	
Number of Samples		36	45	48	
PACIFIC Labor		\$1,500	\$1,500	\$2,500	
PACIFIC Other		\$550	\$550	\$700	
Hydropunch		\$3,000	\$3,000	\$4,500	
Analytical		\$14,120	\$17,450	\$18,560	
Waste Disposal		\$500	\$750	\$750	
TOTAL		\$19,670	\$23,250	\$27,010	
Groundwater					
Number of Wells	4	1	1	2	
PACIFIC Labor	\$1,500	\$750	\$750	\$750	
PACIFIC Other	\$250	\$200	\$200	\$200	
Drilling	\$7,000	\$1,750	\$1,750	\$3,500	
Analytical	\$3,500	\$750	\$750	\$1,500	
Waste Disposal	\$1,000	\$500	\$500	\$500	
TOTAL	\$13,250	\$3,950	\$3,950	\$6,450	
Air					
PACIFIC Labor		\$3,000	\$3,000	\$3,000	
TOTAL		\$3,000	\$3,000	\$3,000	
Surface Water & Sediment					
Number of Water Samples	10	4	2	2	
Number of Sediment Samples	10	4	2	2	
PACIFIC Labor	\$3,000	\$1,500	\$750	\$750	
PACIFIC Other	\$400	\$150	\$150	\$150	
Analytical	\$9,000	\$4,000	\$2,000	\$2,000	
Outside services	\$800				
TOTAL	\$13,200	\$5,650	\$2,900	\$2,900	
RI Field Investigation Total	\$26,450	\$26,620	\$30,200	\$36,460	\$119,730

- CAN BE
HOUSING CASE
REDACTING THE

Marty:

Enclosed please find copies of the start cards and monitoring well reports submitted to the Water Resources Department last month for your files. I contacted Rob Carter at WRD about these wells, and Rob had passed the information along to the appropriate people.

Talk to you soon!-- Mark Ochsner

ADC 0922
PERMITS

(as required by ORS 537.765 & OAR 690-240-095)

Start Card # 102417

WELL NO. 13-16

(2) TYPE OF WORK:

- ### **(3) DRILLING METHOD**

- Well Location: County Multnomah
Township 1N (N or S) Range 1E (E or W) Section 13
I, Joe 1/4 of Joe 1/4 of above section.

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

(7) STATIC WATER LEVEL:

12.0 Ft. below land surface. Date Feb 75 1997
Artesian Pressure 4 lb/sq. in. Date _____

(8) WATER BEARING ZONES:

Depth at which water was first found

From	To	Est. Flow Rate	SWL
12	015	4	12.0

(9) WELL LOG:

Ground elevation 555.0

[illegible]

Date started FEB 15 1991 Completed FEB 15 1991

(5) WELL TEST:

- ☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity PH

Temperature of water	°F/C	Depth artesian flow found	
----------------------	------	---------------------------	--

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From _____ ft. to _____ ft.

Remarks: NO. 111 405-449 per 1000000

Name of supervising Geologist/Engineer Math D. GUSTAV

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

MWC Number

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Maria Ochoa MWC Number 10753
Date 6/16/97

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

COP0018984

(as required by ORS 537.765 & OAR 690-240-095)

(as required by ORS 537.765 & OAR 690-240-095)

Start Card # 107417

WELL NO. B-16

Name 76 P. poster 15/01/2014

Address 5525 W. Diverse Ave

City Portland State OR Zip 97210

☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

Well Location: County Multnomah

Township 114 (N or S) Range 1E (E or W) Section 13

1. W 1/4 of SW 1/4 of above section.

2. **Either:** Street address of well location 2570, POW Deane Ave
Portland OR 97210

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

12.0 Ft. below land surface. Date: 8/28/97

Artesian Pressure lb/sq. in. Date

Depth at which water was first found 172000

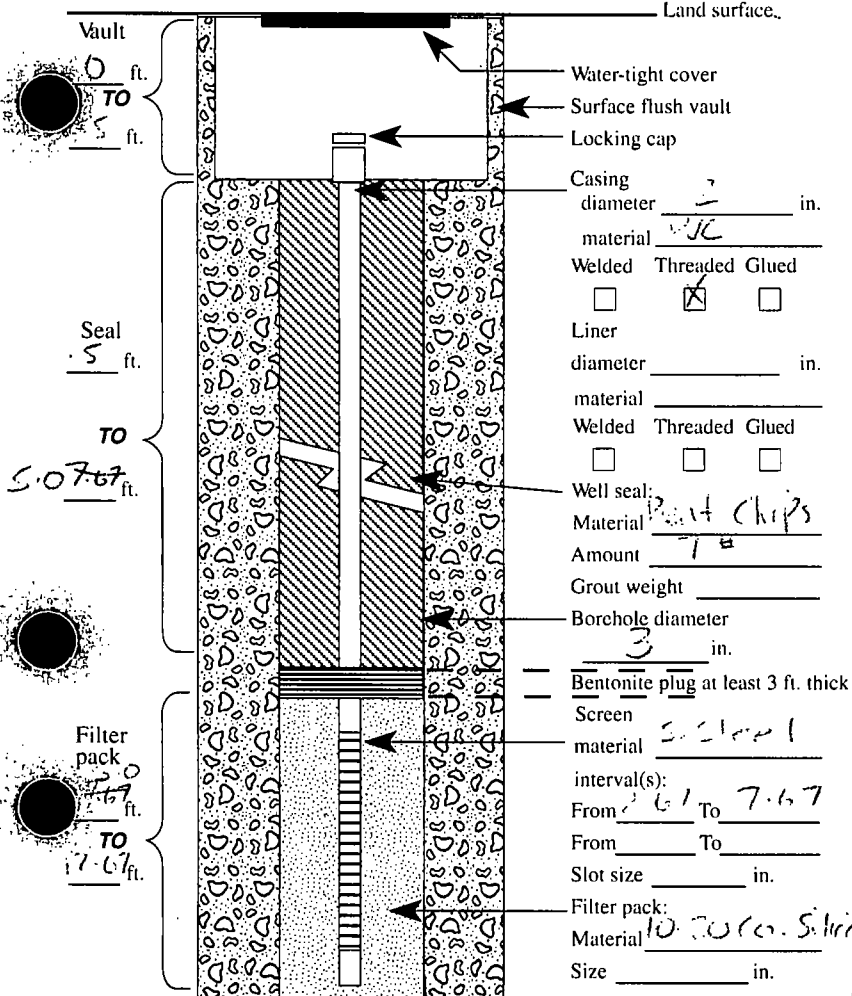
From	To	Est. Flow Rate	SWL
12	13	+	17.0

Ground elevation 530

[illegible]

Date started 1/1/85 Completed 1/1/85

Special Standards ☐ Yes ☒ No Depth of completed well 12.67 ft.



☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian
 Permeability _____ Yield _____ GPM
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From _____ ft. to _____ ft.

Remarks:

Name of supervising Geologist/Engineer Matthew D. Orlowski

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

MWC Number

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

MWC Number: 10753

Signed: M. A. A. O. M. M. Date: 6/16/97

Signed _____ Date _____
SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

COP0018985

(as required by ORS 537.765 & OAR 690-240-095)

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102 416

(1) OWNER/PROJECT:

WELL NO. 3-4

Name 7th Producer Co.
Address 5325 NW Marine Ave
City Portland State OR Zip 97210

(2) TYPE OF WORK:

- ☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

(3) DRILLING METHOD

- ☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

(6) LOCATION OF WELL By legal description

Well Location: County Multnomah

Township 14 N (N or S) Range 12 E (E or W) Section 1

1. 600 1/4 of 200 1/4 of above section.

2. **Either** Street address of well location 5233 DORCHESTER AVE
WILMINGTON, DE 197210

or Tax lot number of well location _____

(7) STATIC WATER LEVEL:

13.0 Ft. below land surface. Date Feb. 1997

Artesian Pressure 4 lb/sq. in. Date _____

(8) WATER BEARING ZONES:

Depth at which water was first found 17 1/2

From	To	Est. Flow Rate	SWL
13	15.74	2	13.0

(9) WELL LOG:

Ground elevation 550 ft

[illegible]

Date started 11/1/01 Completed 11/25/01

(5) WELL TEST:

- ☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity PH

Temperature of water	°F/C	Depth artesian flow found	ft.
----------------------	------	---------------------------	-----

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From ft. to ft.

[illegible]

Name of supervising Geologist/Engineer Mark A. Johnson

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Mark A. Dehner MWC Number 10253
Date 6/16/97

Signed _____ Date _____
SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

COP0018987

STATE OF OREGON
MONITORING WELL REPORT
 (as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102415

(1) **OWNER/PROJECT:** WELL NO. 13-3
 Name 76 Products Company
 Address 5528 NW Doane Ave
 City Portland State OR Zip 97210

(2) **TYPE OF WORK:**
☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

(3) **DRILLING METHOD**
☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

(6) **LOCATION OF WELL By legal description**

Well Location: County Multnomah
 Township 1N (N or S) Range 1E (E or W) Section 18
 1. SW 1/4 of SW 1/4 of above section.
 2. Either Street address of well location 5528 NW Doane Ave
Portland OR 97210 97210
 or Tax lot number of well location _____

3. **ATTACH MAP WITH LOCATION IDENTIFIED.** Map shall include approximate scale and north arrow.

(7) **STATIC WATER LEVEL:**

14.55 Ft. below land surface. Date Feb 75 1997
 Artesian Pressure 0 lb/sq. in. Date _____

(8) **WATER BEARING ZONES:**

Depth at which water was first found ~ 14

From	To	Est. Flow Rate	SWL
<u>12</u>	<u>14.5</u>	<u>0</u>	<u>13.0</u>

(9) **WELL LOG:**

Ground elevation ~ 35.0

Material	From	To	SWL
<u>Sandy Gravel, fill</u>	<u>0</u>	<u>1</u>	
<u>F-M SAND. poorly graded, fill</u>	<u>1</u>	<u>14.5</u>	<u>13.0</u>

Date started FEB 75 1997 Completed FEB 75 1997

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed _____ Date _____ MWC Number _____

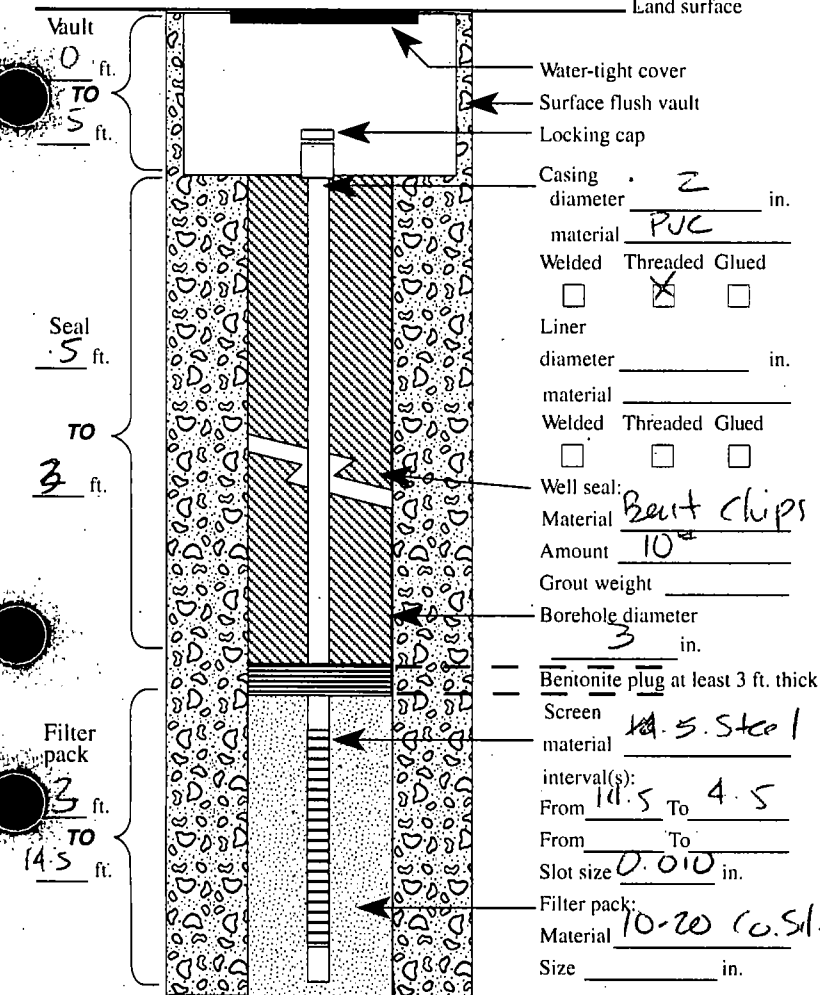
(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Mark A. Ockner MWC Number 10253
 Date 6/16/97

BORE HOLE CONSTRUCTION

Special Standards ☐ Yes ☒ No Depth of completed well 14.55 ft.



(5) **WELL TEST:**

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian
 Permeability _____ Yield _____ GPM
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? ☐ Yes ☒ No
 By whom? _____
 Depth of strata to be analyzed. From _____ ft. to _____ ft.
 Remarks: No well testing performed

Name of supervising Geologist/Engineer Mark A. Ockner

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

COP0018988

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the

Start Card # 102415

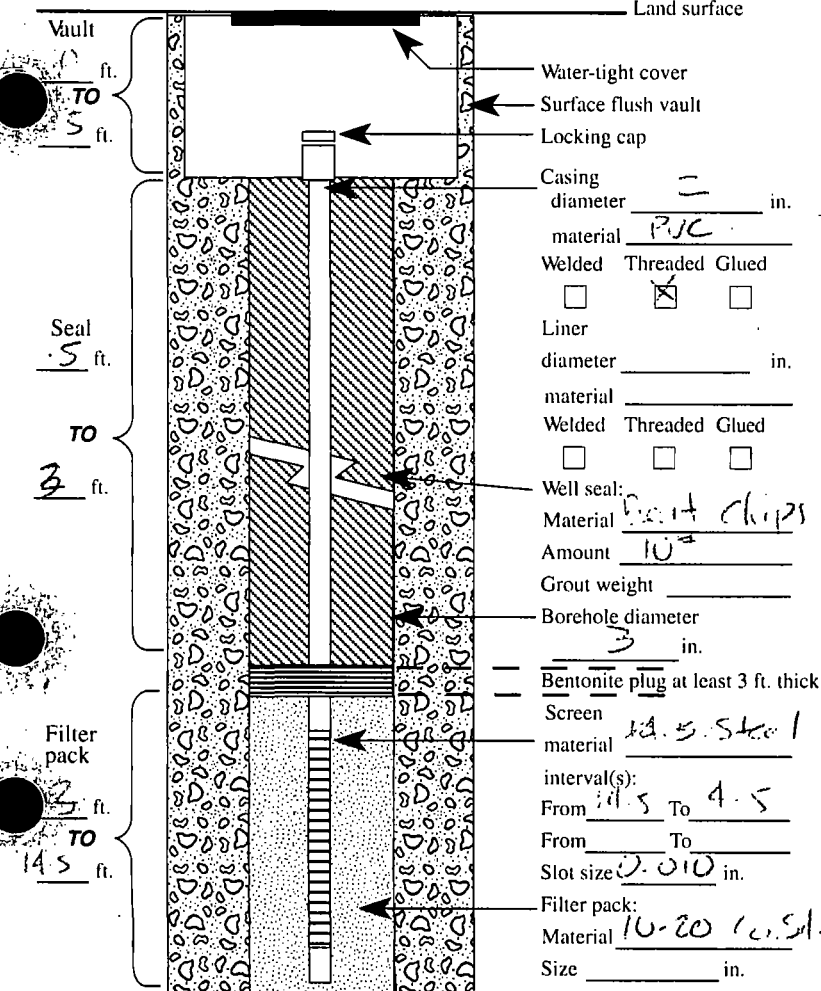
WELL NO. 123

Name 76 Products Company
Address 5328 NW Vocate Ave
City Fort Lauderdale State FL Zip 33309

☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

Special Standards ☐ Yes ☒ No Depth of completed well 121.53 ft.



☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian
 Permeability _____ Yield _____ GPM
 Conductivity _____ PH _____
 Temperature of water _____ °F/C Depth artesian flow found _____ ft.
 Was water analysis done? ☐ Yes ☒ No

By whom? _____
Depth of strata to be analyzed. From _____ ft. to _____ ft.
Remarks: *10' to 15' from top of bed*

Name of supervising Geologist/Engineer Philip A. Johnson

Well Location: County Washington

Township 14 (N or S) Range 1 (E or W) Section 8

1. () 1/4 of SW 1/4 of above section.
2. Either, Street address of well location 11.9 NW Doane Ave
Portland OR 97210

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

14.55 Ft. below land surface. Date Feb 1978 1997

Artesian Pressure		lb/sq. in.	Date
-------------------	---	------------	------

Depth at which water was first found 5.74

From	To	Est. Flow Rate	SWL
12	14.5	6	13.0

Ground elevation ~ 38.0

[illegible]

Date started 1-22-91 Completed 1-25-91

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Maria C. Rivera MWC Number 10253
Date 6/16/97

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

COP0018989

(as required by ORS 537.765 & OAR 690-240-095)

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102414

(1) OWNER/PROJECT: 76 Products Co. WELL NO. B-2
Name 76 Products Co.
Address 5528 NW Doane Ave.
City Portland State OR Zip 97210

(2) TYPE OF WORK:

- ☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

(3) DRILLING METHOD

- ☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

(6) LOCATION OF WELL By legal description

Well Location: County Multnomah
Township 1N (N or S) Range 1E (E or W) Section #18
1. SW 1/4 of SW 1/4 of above section.
2. **Either** Street address of well location 5528 NW Doane Ave
Part 4 land OVR

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

(7) STATIC WATER LEVEL:

16.04 Ft. below land surface. Date Feb 25 1997
Artesian Pressure 0 lb/sq. in. Date

(8) WATER BEARING ZONES:

Depth at which water was first found ~15.5

From	To	Est. Flow Rate	SWL
12	16	0	12.5

(9) WELL LOG:

Ground elevation - 35.0

[illegible]

Date started FEB 25 1941 Completed FEB 25 1951

(unbonded) Monitor Well Constructor Certification:

I certify that the work performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment of work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Mark A. Ochsen MWC Number 10253
Date 6/16/77

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(5) WELL-TEST:

- ☐
- Pump
- ☐
- Bailer
- ☐
- Air
- ☐
- Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity	PH
--------------	----

Temperature of water	°F/C	Depth artesian flow found	ft.
----------------------	------	---------------------------	-----

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From _____ ft. to _____ ft.

Remarks: No. will test repeatedly

Name of supervising Geologist/Engineer Mark A. Oltisner

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

MWC Number 10753

Date 6/16/77

COP0018990

(as required by ORS 537.765 & OAR 690-240-095)

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102 114

(1) OWNER/PROJECT:

WELL NO. B-2

Name 76 Products Co.
Address 5578 New Joanne Ave
City Orlando State FL Zip 32810

(2) TYPE OF WORK:

- ☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

(3) DRILLING METHOD

- ☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other 4" and 6" Auger

(6) LOCATION OF WELL By legal description

Well Location: County Madison
Township 1N (N or S) Range 1E (E or W) Section #15
1. 544 1/4 of 545 1/4 of above section.
2. **Either** Street address of well location 5018 NW Doane Ave
Boothland OR2

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

(7) STATIC WATER LEVEL:

16.04 Ft. below land surface. Date 5.12.5.1997
Artesian Pressure 6.1 lb/sq. in. Date _____

(8) WATER BEARING ZONES:

Depth at which water was first found ~ 15.5

From	To	Est. Flow Rate	SWL
12	160	→	125

(9) WELL LOG:

Ground elevation 1130

[illegible]

Date started 11/27/1997 Completed 1/1/98

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed _____ Date _____

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Maria. John MWC Number 10753
Date 11-1-97

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

(5) WELL TEST:

- ☐
- Pump
- ☐
- Bailer
- ☐
- Air
- ☐
- Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity	PH
--------------	----

Temperature of water	°F/C	Depth artesian flow found	ft.
50	10	10	10
55	13	15	15
60	16	20	20
65	19	25	25
70	21	30	30
75	24	35	35
80	27	40	40
85	30	45	45
90	32	50	50
95	35	55	55
100	38	60	60

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From ft. to ft.

Remarks: No ...

Name of supervising Geologist/Engineer Math A. Johnson

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

MWC Number 10753

Date: 11-7-97

COP0018991

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102418

(1) OWNER/PROJECT: 76 Products Co. WELL NO. B-1
Name 76 Products Co.
Address 5570 NW 16th Ave
City Portland State OR Zip 97210

(2) TYPE OF WORK:

- ☒ New construction ☐ Alteration (Repair/Recondition):
☐ Conversion ☐ Deepening ☐ Abandonment

(3) DRILLING METHOD

- ☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

(6) LOCATION OF WELL By legal description:

Well Location: County MULTNOMAH
Township 1N (N or S) Range 1E (E or W) Section 18
I. SW 1/4 of SW 1/4 of above section.

2. **Either** Street address of well location 5513 NW Voate
Portland OR.

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

(7) STATIC WATER LEVEL:

12 Ft. below land surface. Date Feb 75 1997
Artesian Pressure 0 lb/sq. in. Date

(8) WATER BEARING ZONES:

Depth at which water was first found . 12 .

From	To	Est. Flow Rate	SWL
12	16	0	12

(9) WELL LOG:

Ground elevation ~ 35.0

[illegible]

Date started Feb 75 1997 Completed Feb 75 1997

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed Mark A. Ochman MWC Number 10253
Date 6/16/97

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Mark A. Ochman MWC Number 7025-
Date 6/10/97

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

(5) WELL TEST:

- ☐
- Pump
- ☐
- Bailer
- ☐
- Air
- ☐
- Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity	PH
--------------	----

Temperature of water	°F/C	Depth artesian flow found	ft.
50	10	10	10
55	13	15	15
60	16	20	20
65	19	25	25
70	21	30	30
75	24	35	35
80	27	40	40
85	29	45	45
90	32	50	50
95	35	55	55
100	38	60	60
105	41	65	65
110	43	70	70
115	46	75	75
120	49	80	80
125	52	85	85
130	55	90	90
135	58	95	95
140	61	100	100
145	64	105	105
150	67	110	110
155	70	115	115
160	73	120	120
165	76	125	125
170	79	130	130
175	82	135	135
180	85	140	140
185	88	145	145
190	91	150	150
195	94	155	155
200	97	160	160
205	100	165	165
210	103	170	170
215	106	175	175
220	109	180	180
225	112	185	185
230	115	190	190
235	118	195	195
240	121	200	200
245	124	205	205
250	127	210	210
255	130	215	215
260	133	220	220
265	136	225	225
270	139	230	230
275	142	235	235
280	145	240	240
285	148	245	245
290	151	250	250
295	154	255	255
300	157	260	260
305	160	265	265
310	163	270	270
315	166	275	275
320	169	280	280
325	172	285	285
330	175	290	290
335	178	295	295
340	181	300	300
345	184	305	305
350	187	310	310
355	190	315	315
360	193	320	320
365	196	325	325
370	199	330	330
375	202	335	335
380	205	340	340
385	208	345	345
390	211	350	350
395	214	355	355
400	217	360	360
405	220	365	365
410	223	370	370
415	226	375	375
420	229	380	380
425	232	385	385
430	235	390	390
435	238	395	395
440	241	400	400
445	244	405	405
450	247	410	410
455	250	415	415
460	253	420	420
465	256	425	425
470	259	430	430
475	262	435	435
480	265	440	440
485	268	445	445
490	271	450	450
495	274	455	455
500	277	460	460
505	280	465	465
510	283	470	470
515	286	475	475
520	289	480	480
525	292	485	

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed, From, ft. to ft.

Remarks: 110 63611 + strong per forvard

Name of supervising Geologist/Engineer Mark Ochisner

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

COP0018992

(as required by ORS 537.765 & OAR 690-240-095)

(as required by ORS 537.765 & OAR 690-240-095)

Instructions for completing this report are on the last page of this form.

Start Card # 102418

(1) OWNER/PROJECT:

WELL NO. 5-1

Name 76 Products Inc.
Address 5575 N. W. 40th Ave
City Fort Lauderdale State FL Zip 33309

(2) TYPE OF WORK:

- ☒ New construction ☐ Alteration (Repair/Recondition)
☐ Conversion ☐ Deepening ☐ Abandonment

(3) DRILLING METHOD

- ☐ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Hollow Stem Auger ☐ Other Hand Auger

(6) LOCATION OF WELL By legal description

Well Location: County Jefferson

Township 111 (N or S) Range 1E (E or W) Section 18

2. **Either** Street address of well location 25000 ROAD
SECTION 22

or Tax lot number of well location

3. ATTACH MAP WITH LOCATION IDENTIFIED. Map shall include approximate scale and north arrow.

(7) STATIC WATER LEVEL:

12 Ft. below land surface. Date Feb 25 1997

Artesian Pressure 21 lb/sq. in. Date _____

(8) WATER BEARING ZONES:

Depth at which water was first found 12

From	To	Est. Flow Rate	SWL
12	16	4	12

(9) WELL LOG:

Ground elevation - 55.0

[illegible]

Date started 8-1-77 Completed 8-12-77

(5) WELL TEST:

- ☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Permeability	Yield	GPM
--------------	-------	-----

Conductivity PH

Temperature of water	°F/C	Depth artesian flow found	
----------------------	------	---------------------------	--

Was water analysis done? ☐ Yes ☒ No

By whom?

Depth of strata to be analyzed. From	ft. to	ft.
--------------------------------------	--------	-----

Remarks: 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1

Name of supervising Geologist/Engineer André Orlisner

(unbonded) Monitor Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to the best knowledge and belief.

Signed Math A. Chace Date 6/16/99

(bonded) Monitor Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed Maria Ceballos MWC Number 1023
Date 6/16/97

SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT

COP0018993

FOR WATER RESOURCES DEPARTMENT USE ONLY

W 102417

Date Postmarked _____

WRD Receipt _____

Date Hand-Delivered _____

Date Fee Received _____

Watermaster Initials _____

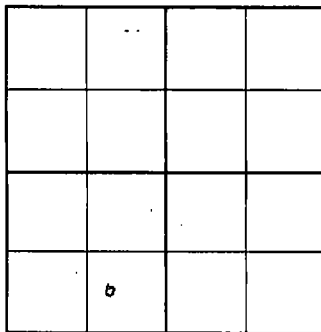
Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products CompanyHome Phone: 697 7416 5528 NW Doane AveWork Phone: 248 1517 Portland OR 97210Check type of work: Fee Required: ☒ New Construction ☐ Conversion No Fee Required: ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ AbandonmentProposed Commencement Date: Feb 25 1997 Original Start Card Number: _____Existing or Proposed Well Depth: ~ 16 Diameter: _____ Original Well I.D. Label Number: B-16Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane Ave
Portland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Mark A. Ochser
Owner/Agent6/16/97
Date SignedMark A. Ochser
Bonded Water/Monitor Well ConstructorPacific Environmental Group
CompanyLicense No. 102536/16/97
Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY FOR YOUR RECORDS.

COP0018994

Date Postmarked

Date Hand-Delivered

Watermaster Initials

W 102417

WRD Receipt

Date Fee Received

Check No.

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products Company
 Home Phone: 697 7116 5528 NW Doane Ave
 Work Phone: 697 1517 Portland OR 97210

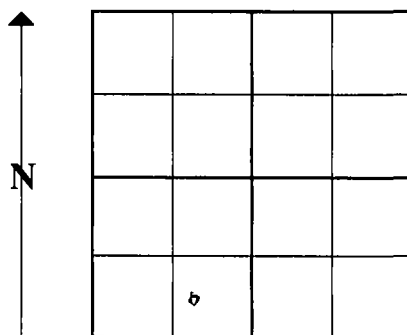
Check type of work: Fee Required: ☒ New Construction ☐ Conversion No Fee Required: ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ Abandonment Original Start Card Number _____

Proposed Commencement Date: FEB 25 1997

Existing or Proposed Well Depth: 16 Diameter: _____ Original Well I.D. Label Number: B-16

Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring
☐ Thermal ☐ Injection ☐ Other _____

Proposed Well Location: County Multnomah Township: 10 Range: 1E Section: 12
 North or South East or West



1. SW 1/4 of SW 1/4 of above section.
2. Street Address of well location (or directions if not assigned).
5528 NW Doane Ave
Portland OR 97210
3. Tax-lot number of well location: 001A
4. Attach map with location identified. (See reverse for approved maps)
5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Mary Cooner
 Owner/Agent
6/16/97
 Date Signed

Mark A. Ochisner
 Bonded Water/Monitor Well Constructor
Pacific Environmental Group
 Company
 License No. 10253
6/16/97
 Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY TO CUSTOMER

FOR WATER RESOURCES DEPARTMENT USE ONLY

W 102416

Date Postmarked _____

WRD Receipt _____

Date Hand-Delivered _____

Watermaster Initials _____

Date Fee Received _____

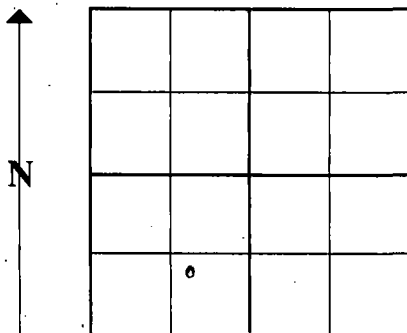
Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products CompanyHome Phone: 697-7916 5528 NW Doane Ave.Work Phone: 248-1517 Portland OR 97210Check type of work: Fee Required: ☒ New Construction ☐ Conversion ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ AbandonmentProposed Commencement Date: Feb 25 1997 Original Start Card Number: _____Existing or Proposed Well Depth: ~16' Diameter: _____ Original Well I.D. Label Number: B-4Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane Ave
Portland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Coanier
 Owner/Agent
6/16/97
 Date Signed

Mark A. Ochisner
 Bonded Water/Monitor Well Constructor
Pacific Environmental Group
 Company
 License No. 10253
6/16/97
 Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY FOR YOUR RECORDS.

COP0018996

Date Postmarked _____

W 102416

Date Hand-Delivered _____

WRD Receipt _____

Watermaster Initials _____

Date Fee Received _____

Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products Company
5528 NW Doane Ave.
Bethland OR 97210
 Home Phone: 507-7916
 Work Phone: 248-1517

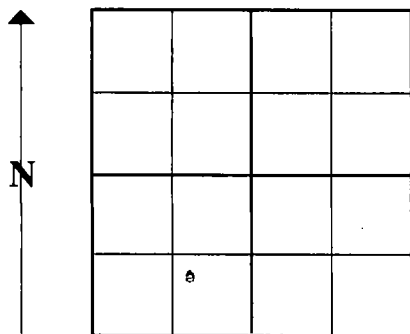
Check type of work: Fee Required: ☒ New Construction ☐ Conversion No Fee Required: ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ Abandonment Original Start Card Number _____

Proposed Commencement Date: Feb 25 1997

Existing or Proposed Well Depth: 16' Diameter: _____ Original Well I.D. Label Number: B-4

Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring ☐ Thermal ☐ Injection ☐ Other _____

Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West



- SW 1/4 of SW 1/4 of above section.
- Street Address of well location (or directions if not assigned).
5528 NW Doane Ave
Bethland OR 97210
- Tax-lot number of well location: N/A
- Attach map with location identified. (See reverse for approved maps)
- Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Maury Cranner
 Owner/Agent
6/16/97
 Date Signed

Mark A. Ochisner
 Bonded Water/Monitor Well Constructor
Pacific Environmental Group
 Company
 License No. 10753
6/16/97
 Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY TO CUSTOMER

FOR WATER RESOURCES DEPARTMENT USE ONLY

W 102415

Date Postmarked _____

WRD Receipt _____

Date Hand-Delivered _____

Date Fee Received _____

Watermaster Initials _____

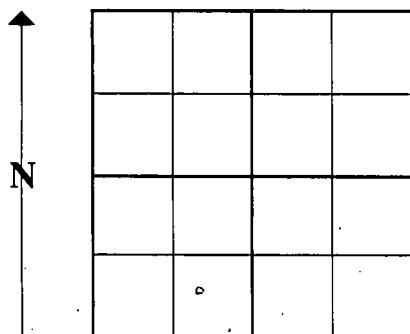
Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Proderbs CompanyHome Phone: 697 7916 5528 NW Doane AveWork Phone: 248-1517 Portland OR 97210Check type of work: Fee Required: ☒ New Construction No Fee Required: ☐ Alteration (Repair/Recondition)Proposed Commencement Date: Feb 25 1997 ☐ Conversion ☐ Deepening Original Start Card Number: _____Existing or Proposed Well Depth: 16' Diameter: 2" Original Well I.D. Label Number: B-3Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1 N Range: 1 E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marilyn Cramer

Owner/Agent

6/16/97

Date Signed

Mark A. Ochisner

Bonded Water/Monitor Well Constructor

Pacific Environmental Group

Company

License No. 102536/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY FOR YOUR RECORDS.

COP0018998

FOR WATER RESOURCES DEPARTMENT USE ONLY

Date Postmarked _____
 Date Hand-Delivered _____
 Watermaster Initials _____

W 102415

WRD Receipt _____

Date Fee Received _____

Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products Company
 Home Phone: 697 7916 5528 NW Doane Ave
 Work Phone: 243 1517 Portland OR 97210

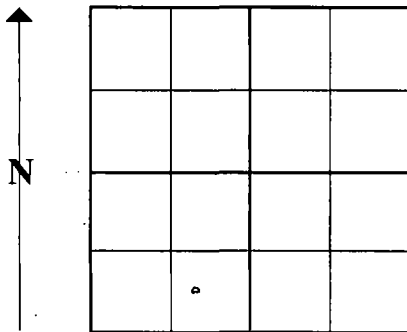
Check type of work: Fee Required: ☒ New Construction ☐ Conversion No Fee Required: ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ Abandonment Original Start Card Number _____

Proposed Commencement Date: 1.18.97

Existing or Proposed Well Depth: 16' Diameter: 2" Original Well I.D. Label Number: B-3

Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring ☐ Thermal ☐ Injection ☐ Other _____

Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18S
 North or South East or West



1. SW 1/4 of SW 1/4 of above section.
2. Street Address of well location (or directions if not assigned).
5528 SW Doane Ave
Portland OR 97210
3. Tax-lot number of well location: N/A
4. Attach map with location identified. (See reverse for approved maps)
5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marilyn Cramer
 Owner/Agent
6/16/97
 Date Signed

Mark A. Ochler
 Bonded Water/Monitor Well Constructor
Pacific Environmental Group
 Company
 License No. 10253
6/16/97
 Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY TO CUSTOMER.

COP0018999

FOR WATER RESOURCES DEPARTMENT USE ONLY

W 102414

Date Postmarked _____

WRD Receipt _____

Date Hand-Delivered _____

Date Fee Received _____

Watermaster Initials _____

Check No. _____

START CARD

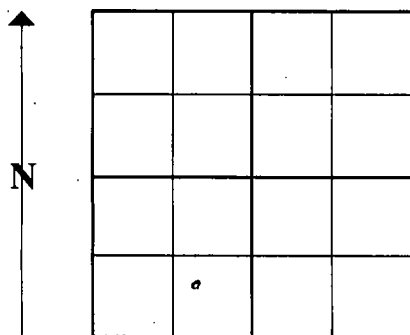
NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

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Owner's name and mailing address: 76 Products CompanyHome Phone: 617-7916 5528 NW Doane Ave.Work Phone: 248-1517 Portland OR 97210Check type of work: Fee Required: ☒ New Construction No Fee Required: ☐ Alteration (Repair/Recondition)Proposed Commencement Date: Feb 25 1997 ☐ Conversion ☐ Deepening Original Start Card Number _____Existing or Proposed Well Depth: ~16' Diameter: 2 3/8" Original Well I.D. Label Number: B-2Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18

North or South East or West

1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer

Owner/Agent

6/16/97

Date Signed

Mark A. Ochisner

Bonded Water/Monitor Well Constructor

Pacific Environmental Group

Company

License No. 102536/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY FOR YOUR RECORDS.

COP0019000

Date Postmarked

Date Hand-Delivered

Watermaster Initials

W 102414

WRD Receipt

Date Fee Received

Check No.

START CARD**NOTICE OF BEGINNING OF WELL CONSTRUCTION**

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address:

Home

Phone:

Work

Phone:

76 Products Company

5578 NW Doane Ave.

Portland OR 97210

Check type of work:

Fee
Required:
☒ New Construction
☐ Conversion
No Fee
Required:
☐ Alteration (Repair/Recondition)
☐ Deepening
☐ Abandonment
Original Start
Card Number

Proposed Commencement Date:

Feb 25 1997

Existing or Proposed Well Depth:

16'

Diameter:

2 3/4"

Original Well I.D. Label Number:

B-2

Check Use:

☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring
☐ Thermal ☐ Injection ☐ Other

Proposed Well Location: County

Multnomah

Township:

1N

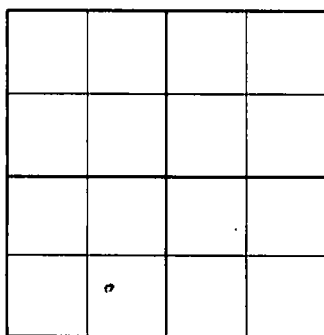
Range:

1E

Section: 12

North or South

East or West

1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5578 NW Doane Ave

Portland OR 97210

3. Tax-lot number of well location:

N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Nancy Cramer

Owner/Agent

6/16/97

Date Signed

AAILA Orlisner

Bonded Water/Monitor Well Constructor

Pacific Environmental Group

Company

License No. 10253

6/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY TO CUSTOMER

COP0019001

FOR WATER RESOURCES DEPARTMENT USE ONLY

Date Postmarked _____
 Date Hand-Delivered _____
 Watermaster Initials _____

W 102418

WRD Receipt _____

Date Fee Received _____

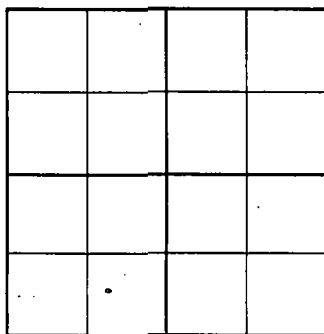
Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products CompanyHome Phone: 697-7916 5528 NW Doane AveWork Phone: 248-1517 Portland OR 97210Check type of work: Fee Required: ☒ New Construction ☐ Conversion No Fee Required: ☐ Alteration (Repair/Recondition) ☐ Deepening ☐ Abandonment Original Start Card Number _____Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: 16.0' Diameter: 28" Original Well I.D. Label Number: B-1Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 NW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Craner

Owner/Agent

6/16/97

Date Signed

Mark A Ochisner

Bonded Water/Monitor Well Constructor

License No. 10253Pacific Environmental Group

Company

6/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY FOR YOUR RECORDS.

COP0019002

Date Postmarked

Date Hand-Delivered

Watermaster Initials

W 102418

WRD Receipt

Date Fee Received

Check No.

START CARD**NOTICE OF BEGINNING OF WELL CONSTRUCTION**

(as required by ORS 537.762)

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address:

Home

Phone: 503-7916

Work

Phone: 243-1517

Check type of work:

Fee
Required:
☒ New Construction
☐ Conversion
No Fee
Required:
☐ Alteration (Repair/Recondition)
☐ Deepening
☐ Abandonment
Original Start
Card Number

Proposed Commencement Date: 5-15-1997

Existing or Proposed Well Depth: ~16.0'

Diameter: 28"

Original Well I.D. Label Number: E-1

Check Use:

☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring
☐ Thermal ☐ Injection ☐ Other

Proposed Well Location: County Multnomah

Township: 1N

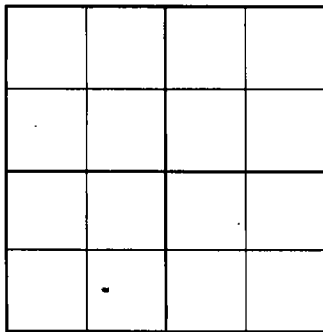
Range: 1E

Section: 13

North or South

East or West

N



1. SUS 1/4 of S10 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

 5528 NW Doane Ave
 Portland OR 97210

3. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marky Creaner

Owner/Agent

5/16/97

Date Signed

Mark A. Orlisner

Bonded Water/Monitor Well Constructor

License No. 10253

Pacific Environmental Group

Company

5/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY TO CUSTOMER

COP0019003

STATE OF OREGON
WATER RESOURCES DEPARTMENT
RECEIPT # 13412 158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: Pacific Environmental Group Inc
BY: _____

APPLICATION	
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # X 11-35 OTHER: (IDENTIFY) ☐

TOTAL REC'D \$ 375-

0417 WRD MISC CASH ACCT

ADJUDICATIONS

\$

PUBLICATIONS / MAPS

\$

OTHER: (IDENTIFY) _____

\$

OTHER: (IDENTIFY) _____

\$

REDUCTION OF EXPENSE

CASH ACCT. _____

\$

PCA AND OBJECT CLASS _____

VOUCHER # _____

0427 WRD OPERATING ACCT

MISCELLANEOUS

0407 COPY & TAPE FEES

0410 RESEARCH FEES

0408 MISC REVENUE: (IDENTIFY) _____

(New) TC165 DEPOSIT LIAB. (IDENTIFY) _____

(Existing) TC168

WATER RIGHTS:

0201 SURFACE WATER

0203 GROUND WATER

0205 TRANSFER

WELL CONSTRUCTION

0218 WELL DRILL CONSTRUCTOR

LANDOWNER'S PERMIT

OTHER (IDENTIFY) _____

102414 102417
102415 102418
102416

\$

\$

\$

\$

EXAM FEE

\$

\$

\$

EXAM FEE

\$

0202

0204

0206

0219

0220

RECORD FEE

\$

\$

\$

LICENSE FEE

\$

\$

0437 WELL CONST. START FEE

0211 WELL CONST START FEE

0210 MONITORING WELLS

OTHER (IDENTIFY) _____

\$

\$ 375-

CARD # _____

CARD # ABOVE

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS

\$

0467 HYDRO ACTIVITY

LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)

0231 HYDRO LICENSE FEE (FW/WRD)

HRDRO APPLICATION _____

\$

\$

\$

RECEIPT # 13412

DATED: 6-25-97

BY: Amy Martin

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

COP0019004

Date Postmarked _____

Date Hand-Delivered _____

Watermaster Initials _____

W 102414

WRD Receipt _____

Date Fee Received _____

Check No. _____

START CARD**NOTICE OF BEGINNING OF WELL CONSTRUCTION**

(as required by ORS 537.762)

AOC 0922

PERMITS

This form must be completed and the original copy mailed or delivered to the Water Resources Department, 158 12th St. NE, Salem, OR 97310, for all new well construction, or conversion of an existing hole not previously used to seek water. This original copy must be mailed or delivered no later than the day construction or conversion work begins. A \$75 fee shall accompany the original copy for all new well construction and conversion (make checks payable to the Water Resources Department). Notices meeting the submittal requirements but received without the required fee will not be accepted as properly and timely filed. In addition, the constructor shall provide the "Watermaster Copy" of this notice to the office of the district watermaster within which the well is being constructed, altered, converted or abandoned using one of the following options: (a) by regular mail no later than three (3) calendar days (72 hours) prior to commencement of work; or, (b) by hand delivery, during regular office hours, no later than the day work is commenced; or, (c) by FAX no later than the day work is commenced. If method (c) is used, the original "Watermaster Copy" of this notice shall also be mailed or delivered to the office of the district watermaster no later than the day work is commenced. The Water Resources Commission has authority to impose civil penalties for failure to submit the required \$75 fee with the start card and for failure to submit cards prior to beginning any construction, alteration, conversion or abandonment work.

Owner's name and mailing address: 76 Products CompanyHome Phone: 697-7916Work Phone: 248-15175528 NW Doane Ave.Portland OR 97210

Check type of work:

Fee

Required:

☒ New Construction☐ Conversion

No Fee

Required:

☐ Alteration (Repair/Recondition)☐ Deepening☐ Abandonment

Original Start

Card Number

Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: ~16'Diameter: 2 3/4"Original Well I.D. Label Number: B-2☐ Domestic☐ Public System (Community)☐ Industrial☐ Irrigation☒ Monitoring

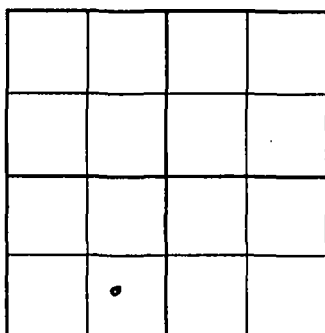
Check Use:

☐ Thermal☐ Injection☐ Other _____Proposed Well Location: County MultnomahTownship: 1N

North or South

Range: 1E

East or West

Section: 181. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer

Owner/Agent

6/16/97

Date Signed

Mark A. Ochsner

Bonded Water/Monitor Well Constructor

Pacific Environmental Group

Company

License No. 102536/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY, WITH ACCOMPANYING FEE, TO WATER RESOURCES DEPARTMENT IN SALEM

COP0019005

Date Postmarked

Date Hand-Delivered

Watermaster Initials

W 102415

WRD Receipt

Date Fee Received

Check No.

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

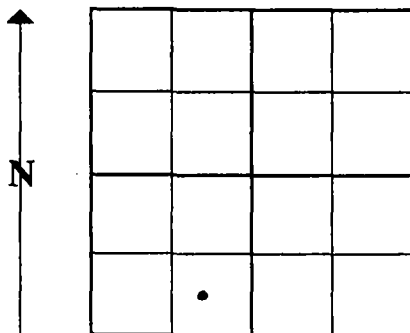
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Owner's name and mailing address: 76 products CompanyHome Phone: 697-7916Work Phone: 248-15175528 NW Doane AvePortland OR. 97210Check type of work: Fee Required: ☒ New Construction ☐ Conversion

No Fee Required:

☐ Alteration (Repair/Reconditioning) ☐ Deepening ☐ Abandonment

Original Start Card Number

Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: 16' Diameter: 2" Original Well I.D. Label Number: B-3Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ OtherProposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer

Owner/Agent

6/16/97

Date Signed

Mark A. Ochsmen

Bonded Water/Monitor Well Constructor

License No. 10253Pacific Environmental Group

Company

6/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY, WITH ACCOMPANYING FEE, TO WATER RESOURCES DEPARTMENT IN SALEM.

COP0019006

Date Postmarked: _____

Date Hand-Delivered: _____

Watermaster Initials: _____

W 102416

WRD Receipt: _____

Date Fee Received: _____

Check No. _____

START CARD**NOTICE OF BEGINNING OF WELL CONSTRUCTION**

(as required by ORS 537.762)

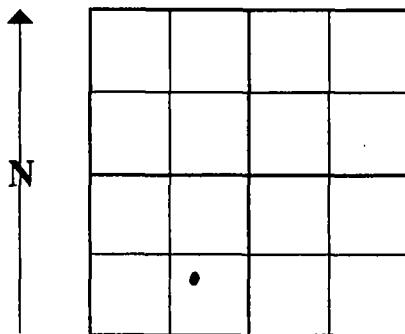
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Owner's name and mailing address: 76 Products CompanyHome Phone: 697-7916Work Phone: 248-15175528 NW Doane Ave.Portland OR 97210Check type of work: Fee Required: ☒ New Construction

No Fee

Required: ☐ Conversion☐ Alteration (Repair/Recondition)☐ Deepening☐ Abandonment

Original Start Card Number: _____

Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: ~16' Diameter: _____ Original Well I.D. Label Number: B-4Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ Other _____Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. Sw 1/4 of Sw 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane Ave
Portland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer
Owner/AgentMark A. Ochsner
Bonded Water/Monitor Well ConstructorLicense No. 102536/16/97
Date SignedPacific Environmental Group
Company6/16/97
Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY, WITH ACCOMPANYING FEE, TO WATER RESOURCES DEPARTMENT IN SALEM

COP0019007

Date Postmarked: _____
 Date Hand-Delivered: _____
 Watermaster Initials: _____

W 102417
 WRD Receipt
 Date Fee Received: _____

Check No. _____

START CARD

NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

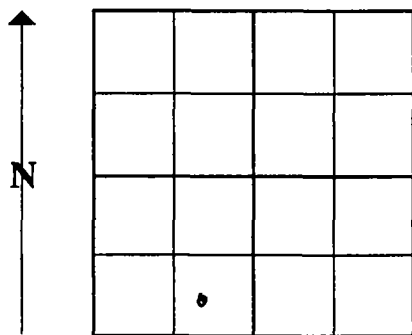
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Owner's name and mailing address: 76 Products CompanyHome Phone: 697-7916Work Phone: 248-15175528 NW Doane AvePortland OR 97210Check type of work: Fee Required: ☒ New ConstructionNo Fee Required: ☐ Conversion
☐ Alteration (Repair/Recondition)
☐ Deepening
☐ Abandonment
Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: ~16 Diameter: _____ Original Well I.D. Label Number: B-16

Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring
☐ Thermal ☐ Injection ☐ Other _____

Proposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18

North or South East or West

1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 SW Doane Ave
Portland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer
Owner/AgentMark A. Ochsner
Bonded Water/Monitor Well ConstructorLicense No. 102536/16/97
Date SignedPacific Environmental Group
Company6/16/97
Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY WITH ACCOMPANYING FEE, TO WATER RESOURCES DEPARTMENT IN SALEM

JUN 25 1997

COP0019008

W 102418

WRD Receipt

Date Fee Received

Check No.

Date Postmarked

Date Hand-Delivered

Watermaster Initials

START CARD

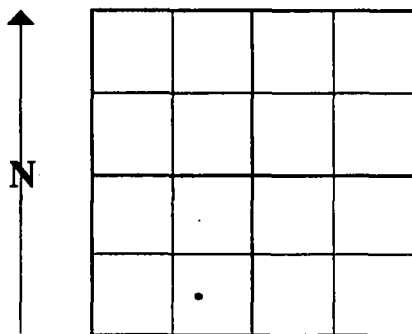
NOTICE OF BEGINNING OF WELL CONSTRUCTION

(as required by ORS 537.762)

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Owner's name and mailing address: 76 Products CompanyHome Phone: 697-79165528 NW Doane AveWork Phone: 248-1517Portland OR 97210Check type of work: Fee Required: ☒ New ConstructionNo Fee Required: ☐ Conversion☐ Alteration (Repair/Recondition)☐ Deepening☐ Abandonment

Original Start Card Number

Proposed Commencement Date: Feb 25 1997Existing or Proposed Well Depth: ~16.0' Diameter: 28" Original Well I.D. Label Number: B-1Check Use: ☐ Domestic ☐ Public System (Community) ☐ Industrial ☐ Irrigation ☒ Monitoring☐ Thermal ☐ Injection ☐ OtherProposed Well Location: County Multnomah Township: 1N Range: 1E Section: 18
North or South East or West1. SW 1/4 of SW 1/4 of above section.

2. Street Address of well location (or directions if not assigned).

5528 NW Doane AvePortland OR 972103. Tax-lot number of well location: N/A

4. Attach map with location identified. (See reverse for approved maps)

5. Show well location within 1/4, 1/4 of section grid at left.

We hereby certify that we have read the back of this form and that the information provided is accurate to the best of our knowledge.

Marty Cramer
Owner/AgentMark A. Ochsner
Bonded Water/Monitor Well ConstructorLicense No. 102536/16/97

Date Signed

Pacific Environmental Group
Company6/16/97

Date Signed

OWNER PLEASE NOTE: This is not a water right application. The owner is responsible for obtaining a water right through the Water Resources Department, if required. The Oregon Health Division requires plans to be submitted and approved prior to construction if the well is to be used as a public system.

ADDITIONAL IMPORTANT INFORMATION ON BACK.

THIS COPY, WITH ACCOMPANYING FEE, TO WATER RESOURCES DEPARTMENT IN SALEM, OR

COP0019009

RECEIVED

JUN 25 1997

WATER RESOURCES DEP.
SALEM, OREGON

Marty: FYI

July 23, 1997

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

ACC 0922

AGENCY CORR.

Peter L. Schnieders
Unocal Corporation
5528 NW Doane Avenue
Portland, OR 97210

Re: Unocal Gasoline Spill
OERS No. 97-0545

Dear Mr. Schnieders:

This letter is in regards to a gasoline spill at your facility in Portland, Oregon, on February 22, 1997. This release has been coordinated through the Department's spill program since it was reported. Significant soil and groundwater contamination remain at the facility, and remediation will continue in the future. This letter is to inform you that this site is being referred to our Voluntary Cleanup and Site Assessment Section for assessment and future coordination.

→ Jill Kiernan has coordinated with you on other concerns at your facility, and she will be the primary contact for future concerns associated with this spill and your cleanup activities. She can be reached at (503) 229-6900.

We appreciate the efforts you have taken to respond to this incident and to prevent similar occurrences. If you have any other questions about this site or the referral process, please contact me at (503) 229-5614.

Sincerely,

Loren G. Garner

Loren G. Garner
State On-Scene Coordinator
Spill Management Program

cc: Jill Kiernan, DEQ/NWR

John A. Kitzhaber
Governor



2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471
DEQ-1

COP0019010

**DEQ/Willbridge RP Meeting
RI Workplan Approach Presentation
June 24, 1997**

MEETING ATTENDEES:

Marty Cramer	Tosco
Lance Geselbracht	PACIFIC
Kevin Freeman	PACIFIC
Pete Geiger	E & E
Tom Angus	E & E
Jill Kiernan	DEQ
Mavis Kent	DEQ

TOPICS DISCUSSED

Soils

DEQ had no methodological concerns with regards to soil sampling using a grid approach as opposed to sampling known/probable/possible release areas. The DEQ (Mavis) concern is that hot-spot areas would be missed by this approach. DEQ did agree that a grid approach would be best for determining risk for a surface worker exposure scenario. The hot spot concern was tied to the trench worker scenario -- that areas of high subsurface concentrations would be overlooked or unintentionally excluded by the grid method. PACIFIC suggested overlaying the proposed grid on a map depicting areas of documented past releases to demonstrate that "hot spot" areas would be sampled as part of this investigation. DEQ stated that the hot spot issue is still under discussion internally, and that guidance is forthcoming.

Groundwater

PACIFIC proposed that wells on Chevron Asphalt property be used for Willbridge groundwater sampling to fill data gaps during the RI investigation, with the understanding that these well are strictly independent off site wells - Chevron Asphalt is

not included in the Willbridge Facility. DEQ accepted this as presented. DEQ (Mavis) was concerned with groundwater sampling along the river -- that screened intervals were too large such that contamination concentrations may be misrepresented due to dilution, and, that sparse well spacing may not detect preferential pathways of contaminant transport to the river. DEQ suggested that intensive discrete interval sampling may be an alternative. However, it appeared that Mavis believed that contamination concentrations in wells along the river would be used as risk drivers for the river.

Sediments and Surface Water

PACIFC discussed excluding the 60-inch storm sewer mixing zone from sediment sampling. PACIFC indicated to DEQ the CH2M Hill storm sewer investigation indicated there is no leakage from facility groundwater into the sewer (no breaks, separations, or cracks). DEQ had not received a copy of the storm sewer report; they will have to review that report prior to accepting, but were not closed to the idea. A calculation of the mixing zone from the outfall would need to be presented as part of the workplan.

Air

DEQ accepted that air monitoring would not be performed as part of the RI investigation. If an air discharge is proposed as part of the remedial approach, then air sampling may be required.

Risk Assessment

DEQ appeared content with the level of effort presented for the human health and ecological risk assessment. The DEQ did raise some concerns with regards to terrestrial receptors in the area.

Other Comments

DEQ would focus on the determination of "Current and Likely Future Beneficial Land and Water Use" for the facility. However, they did concede that the level of effort to complete this determination may be very small for this facility. They do understand the continuing nature of these terminals. Forthcoming Rhone Poulenc and Elf Atochem reports may have information that we can utilize.

- DO NOT WANT FULL HRS SPOT ID TO ASSIST
- DO NOT WANT FULL HRS SPOT ID TO ASSIST
- ASK SHAWN ABOUT EXPENSES
- CHANCE ON SUPPL REQUEST

Jill Kneeman

D&Q WILSONS MTS

JUNE 24, 1997

MAVIS

RI APPROPRIATE

KEVIN }
LAURE } REG

TOM }
PETE } REG

1. LAURE ASKS ABOUT AVAILABILITY OF PUBLIC REVIEW COMMENTS ON SIMILAR SITES TO IDENTIFY POTENTIAL OPPOSITION GROUPS - LITTLE NARRAGANSETT & NANTUCKET INDIAN TRAILS

- NEED TO DO LAND AND WATER USE ASSESSMENTS

2. FIND RULES HAVE BEEN PROMULGATED - AT POLICY

3. KEVIN PROVIDES SUMMARY OF RI APPROACH

SOILS

- SITE & TRAIL WORKERS WITH EXPOSURE PATHWAYS → GRID SPACING
- PROPOSING 300 FT SPACING ~~200 FT~~
- LITTLE EXISTING DATA
- D&Q HAS NO CONCERNS OTHER THAN FISHING SOIL AREAS ARE COVERED
- GUIDANCE IS BEING PROVIDED BY D&Q FOR HRS SPOT IDENTIFICATION WHO USE & INSTITUTIONAL CONTROLS → CAN GET GUIDANCE FROM WORK GROUPS FROM MAVIS
- MAY LOOK AT FOCUSING ON ARIANT SPINE TO ESTABLISH WORST CASE CONDITIONS FOR RISK TO TRAIL WORKERS

WATER

- PLAN TO INSTALL NEW WELLS GRADIENT AND A FEW RECEPTOR WELLS ALONG RIVER → ALSO USE CRYSTAL ABOUT WELLS → GENERAL D&Q CONCURRENCE
- JILL ASKS ABOUT G&S RECORD → KEVIN FEEL IT IS NOT AN ACTIVE G&S MIGRATION AND RELATED TO FLOODS OF 1996
- JILL ASKS FOR G&S MONITORING PLAN TO BE PROVIDED BY PRO → KEVIN WILL PROVIDE
- SOON D&Q NEEDS TO DETERMINE ADEQUACY OF EXISTING WELLS
- MAVIS ASKS ABOUT RIVER FRONT WELL SPACES → CONCERNED THAT WELLS ARE SCREENED OVER APPROPRIATE

DEQ DISCUSSION MTG.

JUNE 24, 1997

RI APPROPRIATE

SURFACE WATER / SEDIMENT

- SEDIMENTS WILL BE TAKEN 30 FT AND AT 150 INTERVALS EXCEPT STATEMAN CREEK & 60 INTO SEWER
- PACIFIC ASKED ABOUT AVOIDING SAMPLING W/IN 60" MZ DUE TO NON-RP CONTAMINANTS LIKELY EXISTING → MAJIS SUGGESTED SAMPLING IN MZ TO ESTABLISH BASELINE BUT DO NOT INCLUDE DATA IN RA

AIR SAMPLING

- PACIFIC WANTS TO INCLUDE TITLE V DATA FROM FACILITY REPORTS TO SATISFY AIR REQUIREMENTS - DEQ CONCERNED W/ AIR REMEDIATION SYSTEMS INVOLVED VENTING TO ATMOSPHERE
- MAJIS ASKED ABOUT EXPOSURE MONITORING → I SAID I WOULD CHECK ON DATA AVAILABILITY

RISK ASSESSMENT

- LOOKING AT GROUND Slightly OVERLAND LEVEL 2 BUT NOT LEVEL 3
- WORK PLAN SHOULD DESCRIBE DATA COLLECTION & METHODOLOGY - MAJIS
- TOM ASKED ABOUT G.W. PURPOSE → MAJIS SAID NEEDS TO DETERMINE WHAT IS BEING DISCHARGED ~~TO~~ TO RIVER FROM CLOSEST WELLS
- MAJIS AGREED TERRESTRIAL FLOW RECORDERS MAY NOT BE AN ISSUE & AGREES IN GENERAL ON THE PROPOSED APPROACH

MISC

- MAJIS ASKED ABOUT LAND & WATER USE ASSES → METHODS WILL BE ADDRESSED IN WP AND PROVIDED IN REPORT.

SIGNATURE

- DRAFT RPS BY 7/10 & GET FINAL RI W.P. TO DEQ 7/20 (MAY W/ RPS 7/11-12)
- LANCE WILL PUT REVISED SIGNATURE IN WP
- GW MONITORING PLAN TO DEQ JULY 3

Jenkins IP (Irving) at MSXSOPC

From: Hansen EE (Erik) at MSXWHWTC
Sent: Friday, July 18, 1997 2:53 PM
To: Jenkins IP (Irving) at MSXSOPC
Subject: Willbridge RI

Irv - my comments on the PEG RI Work Plan follow. I will try to tie in via phone on Tuesday. Let me know how important you think it is for me to do so. — NO ONE ELSE - I'M OK FOR NOW TO HAVE SMALL CHEMISTS
LOOK AT, SEND TO PDS FOLDER

1) Have all of the Shell/GATX sample data reviewed by an analytical chemist and see if we can justify using as much of it as possible to comply with the RI needs.

2) P4 - Soil Sampling - I would not grid the site with soil samples as the first step. I would propose a phased screening approach a) utilize as much existing data as possible to suffice, and b) sample deterministically the known source areas (hopefully not that many samples). Then I would compare these source area ("worst case") concentrations to screening/action levels. If they pass, then sampling clean areas is not needed. Even with deterministic sampling you will obtain relatively clean samples (at the plume boundary) that can be extrapolated across the portions of the site and hence obtain a representative exposure concentration.

3) P5 - Seems like there may be justification to limit the DDT sampling to around Tank 4. DDT is nearly insoluble and will not likely be found in the ground water. Make sure the DDT ground-water sample is filtered because any DDT will be sorbed to the sediments and will not be indicative of a mobile dissolved DDT plume.

4) P5 - Seems like the GATX property has little to no (relatively none) contamination near the river and the dock. Why do we need to install 2 new wells to further prove this? Will one suffice?

5) P6 - We should definitely be able to use existing upgradient wells that are clean as background instead of installing new ones (e.g., MWs 1, 13, 15, 17, 18, 21, 38, 21).

6) P6 - We need to argue strongly that we do not need to physically delineate the vertical hydrostratigraphy. We should be able to use the data probably available sites adjacent to the terminals. Also, the river is the major factor in gradient direction. We should be able to use this and perhaps reference other nearby studies to demonstrate why we do not need to do this. Especially since we are dealing with LNALP petroleum constituents.

7) P6 - I recommend that we obtain about 3 upgradient sediment/water samples (spatially separated) to make sure we have a good handle on the possible variability upstream.

8) P7 - Why is Saltzman Creek targeted for sampling. It seems obvious that the ecological impact concerns are not here or along the GATX shoreline, but are along other shoreline areas (Holbrook Slough, Old Doane Ave. storm drain, New Doane Ave. drain).

9) P9 - see comment #2 above before embarking on a random sampling task.

10) P10 - The facilities are controlled access, the workers are (should be) OSHA informed of the potential hazards of working with petroleum constituents. The facilities should also require H&S plans prior to excavation that require the correct level of monitoring and personal protective equipment. I would strongly emphasize these aspects as why we should not analyze a "unknowing" trench worker scenario. If it must be done, then the proper level of personal protection should be factored into the exposure.

11) P11 - Exposure parameters - Instead of kicking off a big study and trying to calculate site-specific exposure parameters, why not argue the use of EPA MLE parameters rather than RME? I would do this as a quick first pass screening. If needed to get more specific, then do that in a next step.

12) P11 - What is meant by "... and modeling of contaminant concentrations..."? I do not know what this means, but sounds like something we don't need to do.

WILBRIDGE RP MEETING

JULY 22, 1997

- IMV JENNINS - STAFF
- LANIER & KAHN - PSC
- DANNIS COSBY - TESCO
- RENE LITZKE - CHAIRMAN → CONF. CALL
- ERIC CONNORS - GATX → CONF. CALL

1. NORD TO HAVE MTG. WITH CITY TO GET ENCROACHMENT PERMIT
FOR CUTOFF WALL - I WILL LIKELY ATTEND → NEXT WEEK OR
TWO - RENE MAY ALSO ATTEND
2. GPR → PSC PROPOSES TO USE GPR TO IDENTIFY HOLBROOK SEWER
AND SEE WHERE IT CONNECTS TO HOLBROOK TRENCH = \$800
3. RI WORK PLAN - JUST RECEIVED COMMENTS FROM STAFF → PSC
WOULD LIKE TO DELAY WP PREP TO ADDRESS COMMENTS &
MORE APPROPRIATE
4. PRP - NO SMOKEHOUSE GAPS - STILL SOME UNKNOWN REGARDING OLY &
SFDR
5. SOIL SAMPLING - ERIC HANSEN SUGGESTS ADDING HOT SPOTS (PREVIOUSLY
AS FOR WAST-CELL CONDITIONS & IF PASSES RA, NO MORE
SAMPLING REQUIRED - IF GRID PATTERN, MAY TAKE MORE
SAMPLES THAN NECESSARY AND MAY BE REQUIRED BY DRG TO HIT
HOT SPOT ANYWAY - PSC WILL LOOK AT # OF SAMPLES TO DO
GRID & R TO DO DETERMINISTIC + SEE WHICH IS BEST
6. SEDIMENT - PREP RI WP TO RPS NEXT WEEK & SUBMIT TO
DRG FIRST WEEK OF AUGUST

WILBRIDGE RP Mtg (Cont.)

JULY 22, 1997

- E&E COMPLETED PORTION OF RI WP & QAP
- PEG NEEDS TO MANAGE JIM BETH IN GETTING COMMENTS

E&E PROPOSAL

- NEW PROPOSAL INCLUDES DATA VALIDATION & HUMAN HEALTH ASSESSMENT AS WELL AS \$25-30K FOR THE NEW WORK IN CRIB PROPOSAL

- SPENT A \$10K ON RI WP PERS IN ADDITION

- HAVE PROGRAM RI WP & QAP

TOTAL COSTS - \$496,604 D END OF YEAR PLUS ^{\$194,000} ~~\$200,000~~ TO DATE

- LANCE WOULD LIKE REFUND FOR 1/2 OF \$496,000 K

- QUANTUM SAMPLING \$8.664/1/4 + \$5,604 SETUP + \$28,000

- PEG REQUESTED HEARS ON AN COST OVERLAPS

- LANCE COMMITTED

TO DO ITEMS

- KIM TO GET OUT COMMENTS ON FRI'S COMMENTS & NEED COMMENT

BACK LOGS STAFF

- RI WP OUT END OF MONTH PRIORS TO MEET SCOPE CHANGES

Cramer, Marty A.

From: Cramer, Marty A.
Sent: Sunday, July 27, 1997 3:27 PM
To: rwht@chevron.com; ipjenkins@shellus.com; conarde@gatx.com; 'Kevin Freeman'
Cc: pgeiger@ene.com; erik_hansen@shellus.com; GSLBRL@paris.fabrik.com
Subject: RE: Response/Discussion to Shell - E. Hansen RI Workplan Approach

Gents:

Here are my comments on the issues raised by Erik Hansen. I have basically added my comments in italics after each of Kevins comments.

From: Kevin Freeman[SMTP:kevin.freeman@pegnet.com]
Sent: Thursday, July 24, 1997 3:52 PM
To: Cramer, Marty A.; rwht@chevron.com; ipjenkins@shellus.com; conarde@gatx.com
Cc: pgeiger@ene.com; erik_hansen@shellus.com; GSLBRL@paris.fabrik.com
Subject: Response/Discussion to Shell - E. Hansen RI Workplan Approach

Sirs -

Below is presented PACIFICs response/opening discussion of Shell comments to the RI Workplan Approach document, please respond as soon as possible:

1) Shell-specific for soil and sediment data. I spoke with lrv -- he will have a Shell chemist make a preliminary determination as to the validity of the Shell/GATX data. With respect to the current groundwater monitoring data for the site, all data should be validatable, and can be used for temporal trend analysis.

Sounds good to me although it doesn't appear to affect our part of it.

2) This question is the one that needs the most thought. With respect to the Shell/GATX site, if the data is validatable to the level required by DEQ, enough surface/near surface soils data exists for probabilistic risk determination; The sample locations are randomly spread over the terminal and the locations do not appear to particularly correspond with areas of past documented releases.

Some considerations for a deterministic risk determination: There are 95 documented releases at the GATX/Shell facility from 1969 to 1990; of these many are not specifically located or no release volume was recorded, however, many of the volumes are less than 50 gallons. The largest release was 126,000 gallons of "medium aromatics" in 1972. There are three other releases over 10,000 gallons. The total volume of documented releases at the facility since 1969 is 205,000 gallons. This information represents approximately 25 percent of the terminal's operational history (1914). Additionally, tank bottom sludges and oil/water separator sludges were buried on-site from 1914 to the early 1970's. Burial locations are not known.

There are 30 documented releases at the Tosco facility from 1979 to 1993; some are not specifically located but most of the volumes are less than 50 gallons. The largest release was 8,500 gallons of regular leaded gasoline in 1979. There are three other releases over 1,000 gallons.

The total volume of documented releases at the facility since 1979 is 19,000 gallons. This information represents approximately 15 percent of

the terminal's operational history (1908). Additionally, tank bottom sludges and oil/water separator sludges were buried on-site from 1908 to the early 1970's. Burial locations are not known. It is not known how spent in-line filters were disposed of at the site from 1908 to 1970.

There are 17 documented releases at the Tosco facility from 1973 to 1992; none are specifically located but most of the volumes are less than 50 gallons. The largest release was 32,000 gallons of supreme gasoline in 1980. There are three other releases over 1,000 gallons. The total volume of documented releases at the facility since 1979 is 41,229 gallons. This information represents approximately 25 percent of the terminal's operational history (1914). Additionally, tank bottom sludges and oil/water separator sludges were buried on-site from 1911 to the early 1970's. Burial locations are inferred to be in the vicinity of Tanks 1, 2, 3, and 86. It is not known how spent in-line filters were disposed of at the site from 1908 to 1970.

The total of documented releases is approximately 265,000 gallons. However, many of these releases are reported as being greater than 90 percent recovered. This total does not include the recent release at Tosco, the 25,000 gallons of stove oil removed from the Doane Avenue storm sewer manhole in 1974-1975, or the product recovered at the 27-inch storm sewer outfall separator during 1980 (650,000 gallons of watery product removed from the separator during 1980).

My concern is that if we embark on a deterministic risk approach, we risk having to install more borings than if we go the probabilistic approach. If the RPs commit to a deterministic approach, we will have to be very aggressive early in the RI process; we will have to get DEQ to agree the data obtained from a selected amount of releases and past practices is sufficient enough to make a determination for human health risk and site characterization. Additionally, do the RPs want to use each others past practice data for a determination of their own terminal's risk. I'm thinking of the tank bottoms -- only Chevron (sorry, Rene) has a possible location of bottoms burial. Unless we take up an investigation or Shell and Tosco, those terminals will have to use the risk data from Chevron for buried tank bottom wastes.

The probabilistic grid will come close to some release locations; we can adjust sample locations to meet "hot spot" sampling needs if we go the grid route. I guess my thoughts on the issue is this: I think you leave DEQ a great deal of come-back room if you use the deterministic approach (how many hot spots are enough, what about spill that are not documented, what about hot spots in the public right-of-ways [the trench-worker scenario], etc.). If we can get DEQ to agree to a grid that does encounter some documented hot spots, I think that goes along way toward putting the past practices issues to rest. For Irv, if the past Shell data is useable, then you may already have a probabilistic grid completed.

Please provide your comments to my discussion on this issue.

I think the grid pattern is the way to go as the deterministic approach will tend to skew the data and I think much of the terminal areas are actually pretty clean. I would, however, like to try and get as many of the grid sampling locations as possible in areas of known or suspected spills.

3) PACIFIC will propose in the workplan that pesticide samples be field-filtered.

O.K. by me.

4) One well between Shell monitoring well MW-40 and the Chevron facility would likely be sufficient to close groundwater data gaps along the shoreline for the Shell/GATX terminal. An argument can be made that wells down river of MW-33 are unnecessary; as wells MW-33 and MW-40 are non detect for all BTEX and PAH constituents.

This sounds fine as long as Mavis doesn't decide that a decrease in the number of wells won't satisfy her concerns about undiscovered underground contaminate pathways to the river.

5) An upgradient well is not likely necessary for GATX as well MW-21 is clean. However, upgradient wells are still necessary for Chevron and Tosco, as there are no clean wells upgradient on the properties.

I agree and think the upgradient wells could also be used to identify potential upgradient sources and I assume would also be utilized as part of the soil sampling grid.

6) PACIFIC will not propose to collect any "deep" vertical data as part of the RI investigation. DEQ will likely accept this based on work performed at the adjacent Gould site. However, it should be noted that during the DEQ meetings, Mavis has made inquiries as to deeper hydrostratigraphic information for the facility. I do think that we can avoid this.

I am sure we will all agree to this.

7) Three upgradient samples will be proposed.

I think this is a good idea as well and we discussed this to some degree in earlier meetings

8) Sampling of the Saltzman Creek drainage is required in the Consent Order based on past practices at the facility with respect to releases to the Saltzman Creek flume.

I agree.

9) We may propose by sampling only near the Consent Order-identified release points (Saltzman Creek and the 60"/27" Storm Sewers) if the RPs think that would be a better approach. This refers to Erik's comments on deterministic vs. probabilistic risk. As opposed to the soil samples, this may be a safer bet; we would expect the sediments and surface water to be ND at the points we are proposing to sample. However, in the June 24 meeting with Jill and Mavis, one of Mavis's concerns was that we were not adequately characterizing the groundwater-sediment-surface water pathway; we would be missing undiscovered preferential flowpaths to the river. She was particularly concerned along this line with respect to groundwater, and was suggesting (Marty, perhaps you got a different impression?) that we launch an intensive riverfront investigation using hydropunch or similar sampling methods to characterize this. My thought was that we could use limited end-point sampling (the sediment and surface water) to determine risk (or demonstrate lack of it) instead of an all-out assault on the shoreline.

One of the main factors for both consideration in both comment 2 and 9 is cost; the analytical costs are the most significant portion of the RI investigation budget. ----- However, if DEQ will agree and limited sediment and surface water sampling can replace a large number of hydropunch samples for analysis, that may be the better way to go here.

I agree. I don't think the sediment and surface water samples are going to have much if anything in them which should represent the worst case conditions and I think we are pretty sure what the preferential pathways are and can make a pretty good argument to stick to the original plan or simply a limited deterministic sampling effort.

10) The trench worker scenario was included because it is specifically called out in the consent order. Although any on-site workers are likely to use proper precautions, PPE, etc., utility workers who may need to access lines underlying the site may not be aware of the potential site hazards. The utility worker is not necessarily a site worker. These individuals are assumed to be exposed for a short exposure duration (maximum of 60 days, average of 30 days).

Yes

11) In the work plan proposed the use of conservative default exposure factors to represent RME and average exposures for the baseline risk assessment. This methodology is consistent with OAR 340-122-084.

Sounds good to me but then again I never did understand that RA language.

12) Contouring and modeling of contaminant concentrations was suggested in the approach document as a way of obtaining "more realistic" estimates of exposure point concentrations. However, for the baseline risk assessment work plan, we proposed using 90% UCLs for RME exposures and mean concentrations for average exposures (per OAR 340-122-084).

See above

13) Air/vapor will not be sampled as an exposure pathway as part of the workplan (see page 7).

Good and by the way, I don't think I ever got back to you but we don't do any air quality sampling. The only thing we have done is health and safety oriented and involved the workers wearing benzene or other exposure badges so we do not have any data on that. I don't think it is relevant anyway.

14) I don't think DEQ will let you out of lead with a history of releases of lead-containing compounds.

I think you are right.

15) Constituents of concern will be proposed as part of the workplan.

TPH will not be included.

O.K.

16) I do not think DEQ will let Shell/GATX out of sampling/characterizing near the river because wells MW-33 and MW-36 are clean; two wells in the vicinity upgradient of the river (MW-37 and MW-39) have reported detections of BTEX and PAHs. If Mavis sticks to preferential pathway idea, she will push for the area to be investigated.

However, if Irv would like us to, we can not propose borings for those areas.

Whatever Shell wants to do.

17) In USEPA's recently published "Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments" (June 1997), EPA recommends the use of the highest measured or estimated onsite contaminant concentrations in each environmental medium for estimating exposures for screening-level assessments. Oregon Division 122 Rules (340-122-084) stipulates the use of the 90th percentile upper confidence limit on the arithmetic mean of concentrations of hazardous substances as the upper-bound exposure, unless a greater or lesser best estimate is acceptable to the Department of Environmental Quality. The Oregon Rules also stipulate the use of the arithmetic mean of concentrations that would be contacted by a receptor as the central tendency exposure. The Oregon rules specify that risk assessments utilizing deterministic methods should provide both central tendency and upper-bound estimates of risk. The workplan will propose to provide both these central tendency and upper bound estimates of risk. *Sounds like we don't have much choice. Make it so.*

Thats it for my comments. I will be out Monday but back on Tuesday.

Cheers,

August 6, 1997

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

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Andrew Holbrook
GATX Terminals Corporation
P.O. Box 83479
Portland, OR 97283

RE: Willbridge RI/FS Work Plan

Gentlemen:

The purpose of this letter is to reiterate DEQ's expectations of a remedial investigation/feasibility study (RI/FS) Work Plan for the Willbridge facilities.

During a meeting on August 6, 1997, with Lance Geselbracht and Kevin Freeman of Pacific Environmental Group; Erik Hansen and Irv Jenkins of Shell via telephone; and me, an alternative approach to conducting the RI/FS was proposed to DEQ. The proposed approach was to conduct risk assessment activities to focus on appropriate receptors prior to conducting site characterization activities. DEQ expressed concern that this approach would not adequately or appropriately determine the risks to human health and the environment.

While DEQ recognizes and accepts RI/FS streamlining efforts that are consistent with applicable legal agreements and Oregon cleanup laws and rules, DEQ does not agree with this proposed approach as it does not satisfy the requirements of the Consent Order Scope of Work (DEQ No. WMCSR-NWR-94-06) nor the requirements and intent of the 1995 Oregon Revised Environmental Cleanup Law (ORS 465) and corresponding rules (OAR 340-122).

John A. Kitzhaber
Governor



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DEQ-1

COP0019023

DEQ has previously expressed concerns with delays of the RI/FS process at the Willbridge facilities and continues to have concerns with further unnecessary delays in implementing the RI/FS. As such, DEQ requests that an RI/FS Work Plan consistent with the requirements of the Consent Order Scope of Work, and Oregon Revised Environmental Cleanup Law and Rules be submitted to DEQ prior to September 19, 1997. If an RI/FS Work Plan is not submitted in accordance with these requirements by this date, DEQ intends to initiate enforcement actions under the Consent Order. In accordance with the Consent Order, Section 7.L., DEQ will regard the failure to submit a good faith draft work plan as a violation subject to stipulated penalties.

Please feel free to call me at 503-229-6900 if you should have any questions on this matter.

Sincerely,



Jill Kiernan, P.E.
Senior Project Engineer

cc: Lance Geselbracht, Pacific Environmental Group
Kevin Freeman, Pacific Environmental Group
Dave St. Louis, DEQ/NWR
Mavis Kent, DEQ/NWR
Kurt Burkholder/DOJ

Cramer, Marty A.

From: Kevin Freeman[SMTP:kevin.freeman@pegnet.com]
Sent: Wednesday, August 06, 1997 4:04 PM
To: Cramer, Marty A.; rwht@chevron.com; ipjenkins@shellus.com; conarde@gatx.com
Cc: erik_hansen@shellus.com; GSLBRL@paris.fabrik.com
Subject: Summary of August 6, 1997 Meeting with DEQ

Attendees - Jill Kiernan - DEQ
Kevin Freeman - PACIFIC
Lance Geselbracht - PACIFIC
Irv Jenkins - Shell (via telephone)
Erik Hansen - Shell (via telephone)

Discussion

Based on discussions between PACIFIC and Erik Hansen of Shell on Wednesday morning, PACIFIC and Shell presented the idea of performing a "Baseline Risk Assessment/Conceptual Site Model" report to DEQ prior to submittal of the RI work plan. The purpose of this document is to define and evaluate possible exposure pathways for human and ecological risk prior to RI sampling. This would allow the RI field work to focus on those areas with high potential exposure risk (such as the Willamette River) or to fill data gaps (such as the southeastern portion of the Tosco terminal) while not committing resources to sampling areas or media with low risk exposure potential (such as on-site soils).

Jill, speaking for DEQ, did not respond positively to this approach. DEQ does not factor in institutional or mechanical controls when dealing with risk assessment. The idea of applying OSHA exposure standards for works regarding soils was denied. Jill further re-iterated the need for site characterization, regardless of the ultimate use of the data. Jill felt it would be a waste to submit anything other than the RI work plan.

PACIFIC proposed that as part of the RI work plan, a conceptual site model (CSM) be prepared to drive the data needs and uses for the site. The CSM would be used to evaluate potential exposure pathways for human health and the environment. Based on the CSM the Data Quality Objectives would be refined to include sampling of media with complete exposure pathways; other media with incomplete exposure pathways would not be characterized. Jill felt this is an acceptable approach. Erik concurred.

PACIFIC concluded the meeting with a discussion of upcoming activities at the site. Jill gave her O.K. for the dye test to begin. Lance advised Jill as to the upcoming meeting with the City Engineer regarding the 60-inch sewer on Wednesday, August 13. Jill told PACIFIC that she had finished her comments to the IA plan, and was waiting for Mavis to return her comments (who is on vacation). The comments should be back by next week.

Meeting concluded.

Including the CSM in the RI work plan may be the best approach to reducing the number of samples collected by eliminating exposure pathways up front. The one problem with this approach is that multiple iterations (comment and response) on the work plan may be required between DEQ and PACIFIC and the RPs prior to finalization of the work plan. The CSM approach is not the quick turn-around that is the complete site characterization (as outlined in the RI work plan approach document), and would likely increase PACIFIC labor costs due to the multiple iterations.

However, it may ultimately save you money if it reduces the need for you to collect samples from media such as the subsurface soils, where a high degree of lateral and vertical characterization is required.

Rene, Marty, and Eric - Your thoughts on this?

Regards,

Kevin

Meeting w/ City of Portland

8/13/97

ERIC DE BEER - SAID WE CAN CONTINUE TO PUMP G.W. THROUGH EXISTING SYSTEM PROVIDED IT ASSOCIATED WITH PROPER RECOVERY

PACIFIC WILL PROVIDE VIDEO OF STORM SEWER TO CITY → CONCERN IS TO DETERMINE INTEGRITY OF PIPE UPSTREAM OF CUTOFF TO INSURE ADDITIONAL HEAD & CREEPS BY LINE DOES NOT CAUSE SEEPAGE

CITY (NANT) EXPRESSED CONCERN OVER PUTTING EXCAVATED SOILS BACK INTO GROUND

- REQUESTED COPIES LAB RESULTS PRIOR TO BACKFILLING

NREED ENCROACHMENT PERMIT TO WORK IN CITY'S RIGHT-OF-WAY FOR SEWER LINE → NREED TO WORK w/ CAROLINE HALL'S GROUND (ROW) TO GET PERMIT

CITY WANTS TO SEE WALL'S SLIDES

COULD POSSIBLY GET PERMIT BY MID-SEPTEMBER

**AMENDMENT NO. 1 TO GROUND LEASE
AND CONSENT TO ASSIGNMENT**

This is Amendment No. 1 to Ground Lease and Consent to Assignment (collectively "Amendment No. 1"), by and between the PORT OF PORTLAND (the "Port"); UNION OIL COMPANY OF CALIFORNIA, INC. dba UNOCAL, ("Lessee"), a corporation organized under the laws of the State of California; and TOSCO CORPORATION, a corporation organized under the laws of the State of Nevada ("Assignee").

Lessee desires to assign and transfer to Assignee all of Lessee's rights and obligations under the Ground Lease dated March 8, 1989 (Port Contract No. 89-035), (the "Original Ground Lease"), and Assignee is willing to assume all rights and obligations under the Original Ground Lease as amended by this Amendment No. 1.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Port, Lessee, and Assignee hereby agree as follows:

1. Assignment to Assignee

(a) Notwithstanding any other provision of the Original Ground Lease appearing to the contrary and subject to the terms and conditions contained herein, the Port agrees that Lessee may assign and transfer its interest in and to the Original Ground Lease to TOSCO CORPORATION, **provided** that the Assignee agrees to be bound by all the terms and conditions of the Original Ground Lease and this Amendment No. 1. The Port's consent to this assignment shall not be deemed a consent to any other assignments or transfers. Furthermore, this Consent to Assignment does not release Lessee from any liability under the Original Ground Lease. As a condition of allowing this assignment, Lessee shall remain fully liable under the Original Ground Lease to pay and perform all obligations to be paid and performed by the Lessee under the Original Ground Lease. Lessee shall provide the Port with a copy of the assignment document assigning Lessee's interest to Assignee.

2. Retroactive Modifications to the Original Ground Lease

(a) The following paragraphs 6.1.1, 6.1.2 and 6.1.3 shall be inserted as the new Section 6.1 to the Original Ground Lease and shall replace the original Section 6.1. To the extent permitted by law, this new Section 6.1 shall be deemed to relate back to April 9, 1928:

Section 6.1.1 - General Indemnity. Lessee acknowledges that Lessee has continuously occupied and controlled the use of the Premises since April 9, 1928. Lessee accepts full responsibility and liability for activities that have occurred on the Premises since April 9, 1928 and agrees to defend (using legal counsel acceptable to the Port), indemnify, and hold harmless, the Port, its officers, commissioners, directors, employees and agents from and against any and all actual or alleged claims, damages, expenses, costs, fees (including but not limited to attorney, accountant, paralegal, expert and escrow fees), fines, and/or penalties, (collectively "Costs"), which may be imposed upon or claimed against the Port, and which, in whole or in part, directly or indirectly, arise from or are in any way connected with: (1) the act, omission or negligence of Lessee or Lessee's subtenants or licensees or any of their respective partners, officers, directors, agents, employees, invitees or contractors; (2) the use, occupation, management or control of the Premises by Lessee, whether or not due to Lessee's own act or omission and whether or not occurring on the Premises; (3) any condition created in or about the Premises by any party, other than the Port or an agent of the Port, including any accident or act of vandalism occurring on or about the Premises after April 9, 1928. The term "Premises" as used herein shall include the soil and water table thereof.

Section 6.1.2 - Environmental Indemnity. Lessee acknowledges that Lessee has continuously occupied and controlled the use of the Premises since April 9, 1928. Lessee assumes full responsibility and liability for any spills, discharges or other depositing of Hazardous Substances or any violation of Environmental Laws that have occurred on the Premises as a result of the existence of the Lessee's products, facilities or activities since April 9, 1928, and agrees that all past, present and future liability from use of the Premises and improvements throughout the term of this Lease, and any extension thereof, are and shall be the responsibility of the Lessee. In addition to all other indemnity provided for by this Lease or by law, Lessee shall be solely responsible for, and agrees to defend, (using legal counsel acceptable to the Port) indemnify and hold harmless, the Port from and against all Environmental Costs claimed against or assessed against the Port arising, in whole or in part, directly or indirectly, from acts or omissions of any person or entity at or about the Premises, occurring after April 9, 1928. This indemnification shall also require Lessee to reimburse the Port for any diminution in value of the Premises, or other adjacent or nearby Port property, caused by Hazardous Substances, including damages for the loss or

restriction on use of rentable or usable space, or of any amenity of the Premises, or any other Port property, including damages arising from any adverse impact on marketing of space in the Premises or other Port property. Lessee's obligations shall not apply if the Hazardous Substances were deposited on the Premises by the Port or the Port's agents. Lessee shall be solely responsible to assure that no person brings Hazardous Substances onto the Premises. This environmental indemnity is in addition to, and not in lieu of, the broad general indemnity provision set forth in Section 6.1.1.

6.1.3 The provisions of Sections 6.1.1 and 6.1.2 shall not be construed to prohibit the Lessee from seeking contribution or indemnity from any third party which may have caused the event, in whole or in part, for which the Lessee has indemnified the Port; and shall survive the expiration or earlier termination, if any, of this Lease.

3. Retroactive Modifications to the Original Ground Lease

(a) As a further condition of allowing the assignment, the following Section 7.2 - Environmental Management and Compliance shall be inserted as the new Section 7.2 to the Original Ground Lease and shall replace the original Section 7.2 and Section 8.3.

Section 7.2 - Environmental Management and Compliance

7.2.1 - Definitions. For the purposes of this Lease, the following definitions shall apply:

7.2.1.1 Environmental Law. "Environmental Law" shall be interpreted in the broadest sense to include any and all federal, State of Oregon and local laws, regulations, rules, permit terms, codes and ordinances now or hereafter in effect, as the same may be amended from time to time, and applicable decisional law, which in any way govern materials, substances, regulated wastes, emissions, pollutants, animals or plants, noise, or products and/or relate to the protection of health, natural resources, safety or the environment.

7.2.1.2 Hazardous Substance. "Hazardous Substance" shall be interpreted in the broadest sense to include any and all substances, emissions, pollutants, materials, or products defined or designated as hazardous, toxic, radioactive, dangerous or regulated wastes or materials or any other similar term in or under any Environmental Law. Hazardous Substance shall also include, but not be limited to, fuels, petroleum and petroleum-derived products.

7.2.1.3 Environmental Cost. "Environmental Cost" shall be interpreted in the broadest sense to include, but not be limited to, costs and damages arising from or relating to: (i) any actual or claimed violation of or noncompliance with any Environmental Law; (ii) claims for damages, response costs, fines, fees or other relief relating to matters addressed in any Environmental Law; (iii) injunctive relief relating to matters addressed in any

Environmental Law; (iv) Hazardous Substance Releases (as defined in Section 7.2.1.4; and (v) violations of any environmental provisions of this Lease. Costs and damages as used in this Section shall include but not be limited to: (a) costs of evaluation, testing, analysis, cleanup, remediation, removal, disposal, monitoring and maintenance; (b) costs of reporting to or negotiating with any government agency; (c) fees of attorneys, engineers, consultants, and experts, whether or not taxable as costs, incurred at, before or after trial, appeal or administrative proceedings; (d) lost revenue; and (e) diminution of value, loss, or restriction on use of property.

7.2.1.4 Hazardous Substance Release "Hazardous Substance Release" shall be interpreted in the broadest sense to include the spilling, discharge, deposit, injection, dumping, emitting, releasing, leaking or placing of any Hazardous Substance into the air or into or on any land or waters, except as authorized by a then-current and valid permit issued under applicable Environmental Law.

7.2.2 - General Environmental Obligations of Lessee. Lessee shall manage and conduct all of its activities on or relating to the Premises: (i) in compliance with Environmental Law and the environmental provisions of this Lease; (ii) in a manner designed to protect the environment; (iii) in cooperation with the Port in the Port's efforts to comply with Environmental Law; and (iv) in adherence with the Best Management Practices applicable to Lessee's use of the Premises. As used herein, "Best Management Practices" shall mean those environmental or operational standards applicable to a particular business or industry group as a matter of common and accepted practice or as articulated by all or some of the following: Trade associations or professional associations for the particular business or industry group; the business or industry group's own standard operating procedures; and those Best Management Practices specifically defined or identified for a particular business operation or industry group by regulatory agency guidelines. Lessee shall be responsible for ascertaining which Environmental Law governs its activities on or relating to the Premises and shall be responsible for maintaining a current understanding of such Environmental Law throughout the Lease Term. Lessee shall manage and, as appropriate, secure the Premises and its occupation or use of the Premises so as to prevent any violation of Environmental Law by any party on or relating to the Premises.

7.2.3 - Use of Hazardous Substances. In conjunction with and in the ordinary course of the Permitted Uses, and without further written consent, other than that granted by this Section 7.2.3, Lessee shall be permitted to use, handle or store, for their intended purposes in accordance with all manufacturers' instructions, Hazardous Substances consisting of: (i) small quantities of ordinary janitorial, office and landscaping supplies available at retail; (ii) petroleum-derived products fully contained within motor vehicles; and (iii) those Hazardous Substances listed on and conditioned by Exhibit "C", to the extent reasonably and necessarily used in the course of Lessee's normal business operations. Notwithstanding the foregoing, Lessee shall not be permitted to use any Hazardous Substance appearing on the Port's "Hazardous Substance Prohibition List", attached to this Lease as Exhibit "D". The Port reserves the right to update or modify the Hazardous Substance Prohibition List at any time, and from time to time, in response to changes in Environmental Law, and such updates and

modifications shall be binding on Lessee upon advance written notice from the Port, which notice shall explain the reason for the need for such change.

7.2.4 - Hazardous Substance Storage Tanks. Except with the prior written consent of the Port, which consent may be granted or denied in the Port's sole discretion, no underground storage tanks, mobile storage tanks (including fueling trucks), or above-ground storage tanks for the storage of Hazardous Substances shall be installed or operated on the Premises. As a condition of its consent, the Port may require Lessee to sign then-current agreements applicable to such uses, including, without limitation, Storage Tank Use Agreements and Mobile Tank Use Agreements.

7.2.5 - Treated Soil or Waste or Soil Containing Industry Byproducts. Lessee shall not store, treat, deposit, place or dispose of on the Premises, without the prior written consent of the Port, which consent may be granted or denied in the Port's sole discretion: (i) soil or waste treated to remove or reduce its Hazardous Substance content, including soil or waste treated on the Premises; (ii) contaminated soil or waste; or (iii) soil containing industry byproducts, including, without limitation, slag.

7.2.6 - Environmental Audits. As used in this Lease, the term "Environmental Audit" shall include any environmental assessment as currently or subsequently identified under the American Society for Testing and Measures, or its successor organization, including Phase 1, Phase 2 or Phase 3 site investigations which may or may not also include an environmental review of existing operations on the Premises or the proposed operations anticipated to be conducted on the Premises.

7.2.6.1 Special Audit. If Lessee requests a Lease extension, approval of a Lease assignment, or approval of a sublease, the Port may, without limiting its other rights and remedies, require Lessee to conduct and furnish to the Port, at Lessee's sole expense, an Environmental Audit ("Special Audit") of the Premises and operations. In addition, if the Port, at any time during the Lease Term or any extension thereof, has reason to suspect that Hazardous Substances are being or have been used, handled, stored, generated, disposed, placed and/or transported contrary to the requirements of this Lease, in violation of Environmental Law, or in any manner that has resulted, or is likely to result, in a Hazardous Substance Release, then the Port may, after communication of those reasons to Lessee, without limiting its other rights and remedies, require Lessee to conduct and furnish to the Port, at Lessee's sole expense, a Special Audit of the Premises with respect to the environmental matters of concern to the Port. If a Special Audit, conducted for reasons other than a Lease extension, assignment or sublease, finds no Hazardous Substance Release, no violation of the environmental provisions of this Lease and no violation of Environmental Law, the Port shall reimburse Lessee for the reasonable costs paid by Lessee for such Special Audit. In all other cases, the cost of the Special Audit shall be paid by Lessee.

7.2.6.2 Exit Audit. Lessee shall conduct and furnish to the Port, at Lessee's sole expense, an Environmental Audit ("Exit Audit") of the Premises to determine: (i) the environmental condition of the Premises; (ii) whether any Hazardous Substance Release has occurred or exists on or about the Premises; and (iii) whether there is evidence of any

violation of Environmental Law or the environmental provisions of this Lease. The Exit Audit shall be performed not more than ninety (90) days prior to the scheduled Expiration Date of this Lease. Lessee shall provide to the Port, within thirty (30) days prior to the expiration or termination of this Lease, a copy of the Exit Audit. Within thirty (30) days following the expiration of this Lease, Lessee shall provide to the Port a written update to the Exit Audit, as of the last day of the Lease. In the event this Lease is terminated prior to the Expiration Date for any reason, Lessee shall cause the Exit Audit to be completed within sixty (60) days of such actual termination date of this Lease.

7.2.6.3 Audit Requirements. The scope of all Environmental Audits, except the Initial Audit, shall be determined solely by the Port. The scope of the Initial Audit is determined by the Port and Lessee. The Port must review and approve the scope of any proposed Environmental Audit and the firm or individual Lessee intends to retain to perform it before an Environmental Audit may be conducted, and such approval may be withheld or conditioned in the Port's sole discretion. If any Environmental Audit performed under this Lease recommends additional testing or analysis or recommends an additional audit then, unless otherwise agreed to, in writing, by the Port and Lessee, Lessee shall perform the additional recommended testing, analysis or audit and the records and results of such additional work shall be considered a part of the underlying audit that triggered the need for the additional work. The Port and Lessee shall each receive a signed copy of any Environmental Audit report prepared pursuant to this Lease.

7.2.7 - Environmental Inspection. The Port reserves the right, at any time and from time to time, after notice to Lessee, to inspect the Premises and Lessee's operations on and use of the Premises: (i) for the presence of and/or Lessee's management of Hazardous Substances; (ii) for the purpose of sampling Lessee's stormwater discharge; (iii) for compliance with Environmental Law or the environmental provisions of this Lease; and (iv) to facilitate the Port's environmental management, permitting and analysis related to the Premises or any other property of the Port.

7.2.8 - Lessee's Liability

7.2.8.1 Hazardous Substance Releases. Except as provided in, Section 7.2.8.4 Lessee shall be responsible for any Hazardous Substance Release which occurs during the Lease Term on the Premises. Lessee shall also be responsible for any Hazardous Substance Release on the Premises, on other properties, in the air or in adjacent or nearby waterways (including groundwater) which results from or occurs in connection with Lessee's occupancy or use of the Premises occurring during the Lease Term or occurring or continuing after the Lease Term.

7.2.8.2 Presumption. Lessee has controlled and occupied the Premises since April 9, 1928. If the presence of a Hazardous Substance, a Hazardous Substance Release, violation of Environmental Law or violation of any environmental provision of this Lease is discovered or disclosed, then a rebuttable presumption will exist, that Lessee is the cause of and is responsible for all response, remediation, restoration and Environmental Cost arising from such Hazardous Substance, Hazardous Substance Release, violation of

Environmental Law or violation of any environmental provision of this Lease. The presumption established by this Section shall expire after the results of the Exit Audit have been obtained and all response, remediation and full payment of Environmental Cost for which Lessee is responsible under this Lease have been completed.

7.2.8.3 Lessee's Liability for Environmental Cost. Except as provided in, Section 7.2.8.4, Lessee shall be responsible for all Environmental Cost arising under this Lease. Any Environmental Cost for which Lessee is obligated or responsible under this Lease shall be paid by Lessee within thirty (30) days after the date of written notice or invoice from the Port or from the agency assessing such Environmental Cost directly against Lessee. Any Environmental Cost not paid when due shall bear interest at the Delinquency Rate not previously defined from the date due until paid in full.

7.2.8.4 Limitation of Lessee's Liability. Notwithstanding anything to the contrary provided in this Lease, Lessee shall have no responsibility for Hazardous Substances or Hazardous Substance Releases, or Environmental Cost arising therefrom, that: (i) existed on the Premises prior to the Effective Date of this Lease (except if caused by Lessee or Lessee's agents, employees or contractors); or (ii) are caused by the Port or the agents, employees or contractors of the Port after April 9, 1928.

7.2.9 - Environmental Remediation

7.2.9.1 Immediate Response. In the event of a violation of Environmental Law, a violation of an environmental provision of this Lease, a Hazardous Substance Release, or the threat of or reasonable suspicion of the same for which Lessee is responsible under this Lease, Lessee shall immediately undertake and diligently pursue all acts necessary or appropriate to cure or correct the violation or investigate, contain and stop the Hazardous Substance Release.

7.2.9.2 Remediation and Removal. Lessee shall promptly undertake all remedial and/or removal actions necessary or appropriate to ensure that any Hazardous Substance Release is eliminated and that any violation of any Environmental Law or environmental provision of this Lease is cured or corrected. Lessee shall remove, at Lessee's sole expense, all Hazardous Substances for which Lessee is responsible under this Lease or under any Environmental Law, and shall restore the Premises or other affected property or water to its precontamination condition. In the event that any remediation or removal required by this Lease cannot reasonably be completed prior to the termination or expiration of this Lease, Lessee shall not be in default of its remediation obligations as long as Lessee immediately commences all investigation, containment, remediation and removal activities within thirty (30) days (or sooner if required by Environmental Law) and diligently and continuously pursues such activities until completion.

7.2.9.3 Report to the Port. Within thirty (30) days following completion of any investigatory, containment, remediation and/or removal action required by this Lease, Lessee shall provide the Port with a written report outlining, in detail, what has been done and the results thereof.

7.2.10 - Port's Approval Rights. Except in the case of an emergency or an agency order requiring immediate action, Lessee shall give the Port advance notice before beginning any investigatory, remediation or removal procedures. The Port shall have the right to approve or disapprove the proposed investigatory, remediation and removal procedures and the company(ies) and/or individuals conducting such procedures which are required by this Lease or by Environmental Law, whether on the Premises or on any affected property or water. Lessee shall not initiate any risk assessment based remediation or closure without the prior written consent of the Port, which consent may be withheld or conditioned in the Port's sole discretion. The Port will have the right to require Lessee to request oversight from the Oregon Department of Environmental Quality ("DEQ") of any investigatory, containment, remediation and removal activities and/or require Lessee to seek a statement from DEQ of "No Further Action".

Section 7.3 - Notice to the Port. Lessee shall promptly notify the Port upon becoming aware of: (i) a violation or alleged violation of any Environmental Law related to the Premises or to Lessee's occupation or use of the Premises or any environmental provision of this Lease; (ii) any Hazardous Substance Release on, under or adjacent to the Premises or threat of or reasonable suspicion of any of the same; (iii) any notice or communication from a governmental agency directed to Lessee and relating to any Hazardous Substance Release or any violation or alleged violation of Environmental Law which relate to the Premises or to Lessee's occupation or use of the Premises; and (iv) any Hazardous Substance Release or violation of Environmental Law discovered by Lessee on property or in the air or water adjacent to the Premises. If notice must be given on the weekend or after 5:00 p.m. on any day, Lessee shall notify the Port by calling the Port's emergency telephone number. That number currently is (503) 460-4111.

7.2.11 - Lessee's Documentation of Environmental Management and Conduct

7.2.11.1 Annual Certification. If requested in writing by the Port, Lessee shall provide on or before each anniversary of the Commencement Date of this Lease, a written statement, certified by Lessee as true and complete to the best of their knowledge, that during the preceding year with respect to the Premises and Lessee's occupation and use of the Premises, Lessee has complied with applicable Environmental Law. If Lessee is unable to provide such certification at the time requested by the Port, then Lessee shall provide the Port with a written statement of the steps Lessee is taking to enable it to provide the Port with a certification of compliance.

7.2.11.2 Records. Lessee shall maintain for the duration of the Lease Term and for any period required by law, for periodic inspection by the Port, and deliver to the Port, at the Port's request, true and correct copies of all records required to be maintained pursuant to Environmental Law related to the Premises or to Lessee's occupation or use of the Premises. Such records shall include, but not be limited to: (i) Material Safety Data Sheets for all Hazardous Substances used or stored on the Premises; (ii) a listing of all Hazardous Substances used, their quantities and use on the Premises; and (iii) the identification of specific Hazardous Air Pollutants(HAPs) emitted or generated on the Premises by Lessee's operations,

the specific source and source location for each HAP, and the estimated annual and daily emissions for each HAP. HAPs shall include all air pollutants and emissions defined or designated as hazardous and/or toxic under any Environmental Law. MSDS information shall be kept current and in a place known to and accessible to the Port.

7.2.11.3 Environmental Survey. The Port may from time to time request that Lessee complete Port surveys or questionnaires addressing environmental practices and issues arising in connection with Lessee's occupancy or use of the Premises. Lessee agrees to make a good faith effort to timely complete and return any such environmental survey or questionnaire sent to it by the Port, unless it would be commercially unreasonable for Lessee to do so under the circumstances.

7.2.12- Port's Right to Perform on Behalf of Lessee. In the event Lessee fails to perform any of its obligations under this Section 7.2 or under any Environmental Law, the Port shall have the right, upon giving Lessee seven (7) days written notice, to perform such obligations and charge Lessee the resulting Environmental Cost. The Port may not commence performance on behalf of Lessee under this Section 7.2.12 if, within the seven (7) day notice period, Lessee promptly begins and diligently pursues to completion the performance of the obligations set forth in the Port's notice. In the event the Port determines that an emergency exists and Lessee is unavailable, unwilling or unable to take immediate and appropriate action, the Port may take whatever immediate action it deems necessary and charge Lessee the resulting Environmental Cost.

7.2.13 - Port's Option to Treat Lessee as Holdover Tenant. Until such time as Lessee has fulfilled all of its obligations under this Section 7.2 and all applicable Environmental Law, the Port may, in the Port's sole discretion, treat Lessee as a Holdover Tenant or Tenant at Sufferance (as defined in Section 8.6).

4. Full Force and Effect. Except as expressly amended pursuant to this Amendment No. 1, the Ground Lease shall remain in full force and effect in accordance with its terms. This Amendment No. 1 may be signed in counterparts but shall be deemed a single agreement.

5. Notices. Any notices required to be sent pursuant to the terms of the Original Lease and this Amendment No. 1 shall be sent to Assignee at the address below:

Tosco Corporation
72 Cummings Point Road
Stamford, CT 06902

Notice to the Port and Lessee remain as provided in the Original Ground Lease.

6. Effective Date. This Amendment No. 1 and Consent to Assignment shall be effective as of April 1, 1997. By signing below Lessee and Assignee agree to be bound as provided herein.

IN WITNESS WHEREOF, the parties have entered into this Amendment No. 1 to the Original Ground Lease as of the date indicated above.

LESSEE: UNION OIL COMPANY OF CALIFORNIA, dba
UNOCAL

By P. T. Walters
PETER T. WALTERS

As Its ASST. SECRETARY

ASSIGNEE: TOSCO CORPORATION

By David W. D. D. D.

As Its Asst. Secretary

THE PORT: THE PORT OF PORTLAND

By [Signature]

As Its Executive Director

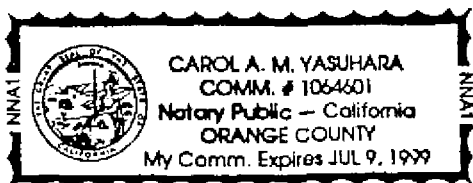
APPROVED AS TO LEGAL SUFFICIENCY

[Signature]

Counsel for the Port of Portland

STATE OF California)
) ss.
County of Orange)

On this 30th day of June, 1997, this instrument was
acknowledged before me by P. J. Walters, as Asst. Secretary
of Union Oil Company of California dba Unocal.

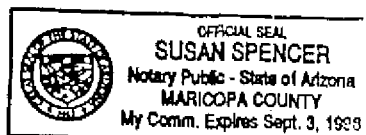


Carol A. M. Yasuhara
Notary Public for _____

My Commission Expires July 9, 1999

STATE OF Arizona)
) ss.
County of Maricopa)

On this 14th day of July, 1997, this instrument was
acknowledged before me by David Waldschmidt, as Asst. Secretary
of Tosco Corporation.



Susan Spencer
Notary Public for Arizona

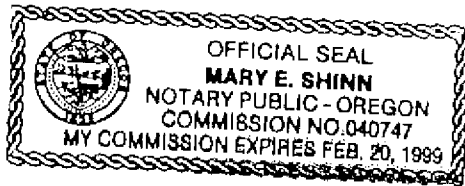
My Commission Expires 9-3-98

STATE OF OREGON)

) ss.

County of Multnomah)

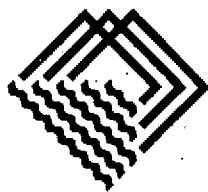
On this 21st day of August, 1997, this instrument was
acknowledged before me by Milae Thouse, as Executive Director of
the Port of Portland, a port district of the State of Oregon.



Mary E. Shinn
Notary Public for Oregon

My Commission Expires 2-20-99

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PACIFIC
ENVIRONMENTAL
GROUP, INC.

September 3, 1997
Project 1115-007.3A

Ms. Nanci M. Snyder
Civil Engineering Associate
City of Portland
Environmental Services
1120 SW 5th Avenue
Portland, Oregon 97204-1972

Re: Willbridge Terminals
Doane Avenue Storm Drain
"Right of Entry" Permit
Portland, Oregon

Dear Ms. Snyder:

This letter has been prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of the three oil companies, collectively referred to as the "Willbridge Terminals", located along Front Avenue near Doane Avenue in Portland. Tosco Marketing Company, Chevron Products Company, and Shell Oil Company, under Consent Order No. WMCSR-NWR-94-06 from the Oregon Department of Environmental Quality (DEQ) to investigate and remediate the subsurface in the area of the Doane Avenue Storm Drain and nearby surrounding areas. Our last meeting on August 22, 1997 was held in an effort to specifically describe to the City what remedial efforts are planned surrounding the existing 60-inch Doane Avenue Storm Drain (SD) in order to obtain a "Right of Entry" permit from the City to allow the construction of the remedial method. This letter provides some clarification of the construction details planned at the site relative to environmental issues. Also, please find attached additional information concerning the video survey of the SD conducted on behalf of the Terminals in 1996.

Construction Details

The proposed remedial method has been described in a required regulatory report previously submitted to DEQ called the "*Interim Action Work Plan*". PACIFIC is

currently awaiting comments on that report from the DEQ. PACIFIC does not expect any significant changes to the remedial remedy described for the 60-inch SD. An engineered shoring system will be installed on top of the SD alignment approximately 30 feet downstream of the manhole labeled "MH-8A". The figures handed out at our August 13, 1997 meeting depict where the proposed location of the shoring system and subsequent excavation will occur. This is the same location where a prior environmental contractor working for the Terminals installed a clay barrier underneath the pipe. Discussed below is a brief scenario of how the excavation would be completed and the remedial method installed:

- Prepare a site health and safety plan for contractor's personnel to follow.
- Shoring design, prepared and stamped by a registered engineer, for PACIFIC to approve prior to beginning of the excavation work.
- Prepare construction details to guide contractor, include soils handling plan with the following elements: soil segregation during excavation activities, sampling soil piles, off-site disposal of adversely impacted soils and backfill with remaining native soils and import material.
- Backfill excavation in accordance with conceptual drawing with HDPE liner in place. Native and imported materials will be "jetted" in place to provide compaction.
- Prepare groundwater extraction and treatment contingency plan, obtain DEQ approval to expedite the NPDES discharge requirements.
- Video survey storm drain to confirm no adverse impacts from excavation and backfill activities.
- Operate and monitor the remedial method.

PACIFIC anticipates that approximately 150 cubic yards of soils will be excavated; of which 75 cubic yards may be impacted by contact with separate-phase hydrocarbons (SPH) floating on groundwater. PACIFIC will comply with DEQ requirements for determining which soils are acceptable to be returned to the excavation. PACIFIC will propose the following criteria for determining which soils are acceptable for return:

Total Petroleum Hydrocarbon as Diesel (TPH-D)	1,000 ppm
Total Petroleum Hydrocarbon as Gasoline (TPH-G)	130 ppm

These criteria are based on a Level 3 Soil Matrix Score site; although remedial efforts at the Willbridge facility are not directed as part of the Soil Matrix system, it is PACIFIC's

opinion that these levels are protective of the site until a final remedial solution can be determined under the guidelines of the Oregon Revised Environmental Cleanup Law.

Excavated material would be segregated and stockpiled through visual inspection and field screening methods. The stockpiles would then be sampled and analyzed for TPH-D and TPH-G by Oregon DEQ methods. Soils exceeding the approved criteria would be disposed of at TPS Technologies in Portland, Oregon. Soils under the approved criteria would be returned to the excavation as fill material.

The health site and safety plan will address worker exposure to chemicals of concern at the site during excavation activities. PACIFIC anticipates the acceptable exposure limits for all compounds are identified in the Federal Occupational Health Safety Act (OHSA) guidelines.

Groundwater is not expected to be encountered during excavation activities, as nearby site monitoring wells indicated the groundwater surface is well below the planned depth of excavation. If groundwater extraction should be required, this water would be pumped to two or three large, temporary storage tanks for settling and separation of hydrocarbons, then through carbon vessels to reduce hydrocarbon concentrations to levels identified in a standard J-1500 NPDES permit. Prior permission to operate a system described here will be solicited from DEQ.

The site where the excavation will take place is owned by Tosco and is currently a dirt lot with monitoring wells and buried product pipelines, far away from the alignment of the SD. This area is entirely surrounded by a chain link fence with locked gate and would be inaccessible by members of the public. All soils will be stockpiled on-site as well as construction equipment and supplies. Security and access at the excavation site will be strictly controlled by Tosco in accordance with their standard procedures at the terminal.

Video Survey of Doane Avenue Storm Drain

The video tapes of the SD previously conducted by the Terminals have been transmitted to the city. Enclosed is additional information related to the survey event; plan view with manhole locations shown, water sampling locations, analytical results and field notes. It should be noted that the video survey covered a lot more of the SD than would be related to the proposed remedial action. It is recommended that the video survey conducted after construction activities proceed from MH-8A towards the outfall at the river. In addition to this information, a copy of the last quarterly analytical report for the Terminals will be forwarded.

Summary

PACIFIC's intent is to try to secure the "Right of Entry" permit to work within the City's easement by September 8, 1997. With this permit, a contractor will be retained and that excavation work would begin during the week of September 22, 1997. PACIFIC expects that total construction time will not exceed three weeks.

If you have questions regarding this letter, please call me.

Sincerely,

Pacific Environmental Group, Inc.



Lance D. Geselbracht, P.E. *(Signature)*

Senior Engineer

Enclosures: Information about video survey of Doane Avenue Storm Drain

cc: Mr. Martin Cramer, Tosco Marketing Company (w/o attachments)
Mr. Rene White, Chevron Products Company (w/o attachments)
Mr. Irv Jenkins, Shell Oil Company (w/o attachments)
Mr. Eric Conard, GATX (w/o attachments)
Mr. Jill Kiernan P.E., Oregon Department of Environmental Quality

Cramer, Marty A.

From: Kevin Freeman[SMTP:kevin.freeman@pegnet.com]
Sent: Friday, September 12, 1997 9:08 AM
To: Cramer, Marty A.; rwht@chevron.com; ipjenkins@shellus.com; conarde@gatx.com
Cc: pgeiger@ene.com; Lance Geselbracht
Subject: Submission of Willbridge Draft RI Workplan

Sirs -

The Draft RI Workplan for the Willbridge Facility was submitted to Jill Kiernan at DEQ on Wednesday, September 10. The workplan presented only the agreed-upon approach (RI Scoping document) and any modifications as discussed in conferences and phone conversations with the RP group. The main points (meat) of the work plan are:

Sampling only to fill data gaps and gather information to support the risk assessments;

The site will be terminals forever, thus the risk assessment scenarios are based on this land use;

The human health risk assessment evaluates only site worker and trench worker exposures. The site worker is exposed to contamination through incidental soil ingestion, dermal contact with soil, and inhalation of fugitive dust. The trench worker is exposed through incidental ingestion of soil, dermal contact with soil, dermal contact with groundwater, and inhalation of fugitive dust.

The ecological risk assessment evaluates only an aquatic receptor. The receptor is exposed through dermal contact and ingestion across the water/gill interface.

To support the risk assessments, following samples are required:

Surface soils from Chevron and Tosco

Subsurface soils from areas within public right-of-ways near SPH accumulations ("hot spots")

Subsurface soils along the Willamette River shoreline

Groundwater samples along the Willamette River Shoreline

River surface water samples

River sediment samples

Samples of sediment from near the Saltzman Creek and 60-inch Doane Storm

Sewer outfalls ("hot spots")

Groundwater samples from existing wells

The following data gaps exist at the site:

Background groundwater for Chevron and Tosco

Groundwater conditions within the southern Tosco tank yard

Groundwater downgradient of GATX well MW-37, along the Willamette River

To fill these gaps, the following samples, wells or sampling is required:

Four wells (2 Tosco, 2 Chevron) along the site/BN-SF RR property line to evaluate background groundwater conditions. Subsurface soil samples will be collected for background (upgradient) soil conditions.

One well along the Willamette River shoreline between MW-40 and B-10 to fill the data gap downgradient of MW-37. CR-1 is not an acceptable monitoring point. Subsurface soil samples will be collected.

Obtain samples from 5 Chevron Asphalt wells along the Asphalt-Tosco property line to evaluate upgradient/downgradient groundwater conditions.

This workplan represents the bare minimum PACIFIC feels can get the risk

assessment job done. IF the DEQ buys into the land use scenario, they may fully buy into the workplan. However, the possibility exists that they may require more site characterization, particularly with respect to subsurface soils. If this is the case, they will likely require submission of Shell's validated previous site soils data for review.

I think this is a good starting place. It is better to define our position and go from here than it is to give DEQ the "whole farm". I think by taking this approach, we can argue future requests from a position of strength; we will continue to contend that the only work required for the site is to characterize the risk to potential exposed populations.

When I took the workplan down to Jill, she said it would be next week before her or Mavis began to look at it. I will begin hounding her on the 26th.

I will be sending out an e-mail, then calling the RPs to set up a in-person meeting to discuss only the outstanding proposal for Willbridge. I understand there is concern from the RPs, and would like to get together face-to-face to discuss your concerns. I originally thought later next week (17, 18, 19), but Marty is out of town during that time. I would ask you (Marty, Rene, Eric, and Irv) if you could e-mail your available dates for September to me.

If you have any questions, please call me. I look forward to seeing you in the near future. Thanks.

Kevin Freeman

AOC 0922

AGENCY CORR.

September 22, 1997

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

Mr. Peter L. Schnieders, Mgr., Northwest Operations Area
Unocal - 76 Products Company
Portland Terminal
5528 NW Doane Avenue
Portland, OR 97210

Re: **Site Assessment Information Request**
Unocal - Willbridge Terminal
5528 NW Doane Avenue
Portland, Oregon 97210
Multnomah County
ECSI #177

Dear Mr. Schnieders:

The Department of Environmental Quality (DEQ), Site Assessment Program, is performing a preliminary review of file information for a February 1997 gasoline release at the Unocal - Willbridge Terminal located at 5528 NW Doane Avenue in Portland, OR. The Site Assessment Program is concerned with properties with known, or potential, environmental contamination. This review is being performed under Oregon's Environmental Cleanup Law, Oregon Revised Statutes (ORS) 465.245. Our records indicate that Unocal - 76 Products Company is the owner/operator at this site. Please contact me if this is not correct. The site is included in DEQ's Environmental Cleanup Site Information (ECSI) database, which contains information on over 2,100 Oregon facilities where hazardous substances are suspected, or known, to have been released to the environment.

We want to give you an opportunity to provide any information which you think we may not be aware of, especially any additional investigations or cleanup reports more recent than the site's March 31, 1997, Spill Report, and the Terminal Manager's June 13, 1997, Spill Report addendum.

DEQ will use the information you provide, together with our other information, to determine if your site

John A. Kitzhaber
Governor



2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

DEQ-1

COP0019046

Mr. Peter L. Schnieders
September 22, 1997
Page 2

will require further assessment. Your assistance in gathering this information will help to ensure an accurate and thorough review of the site.

To ensure a timely review of your site, please send the information requested within two weeks of the date postmarked on the envelope. If we do not hear from you, we will proceed with our review of the information we already have. Please send the information to:

Steve Fortuna, Remedial Action Specialist
Site Assessment Program
DEQ Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, OR 97201-4987

Because ORS 465.330 requires recovery of state expenses associated with remedial actions, DEQ will track its costs in reviewing your site. DEQ will recover those costs if we determine that further action is needed to protect public health or the environment from on-site releases of hazardous substances. Costs may be recovered from persons defined as liable under Oregon Revised Statutes (ORS) 465.255. At the completion of the review, we will inform you of DEQ's decisions regarding further action, and what, if any, costs will be recovered.

If you have any questions regarding this letter or the Site Assessment process, please feel free to contact me at (503) 229-5166.

Sincerely,



Steve Fortuna
Remedial Action Specialist
DEQ Northwest Region

cc: Mike Rosen, Manager Northwest Region Voluntary Cleanup and Site Assessment Section

From:
MVSEA::A1::GEIGER%.mrgate[SMTP:"MVSEA::A1::GEIGER%.mrgate"@ene.com]
Sent: Monday, September 22, 1997 2:01 PM
To: Kevin Freeman
Subject: Review of Willamette River SAP

From: MVSEA::A1::GEIGER%.mrgate
Date: Mon, Sep 22, 1997 2:01 PM
Subject: Review of Willamette River SAP
To: Kevin Freeman
From: NAME: Peter Geiger
FUNC: Word Processing <GEIGER@A1@MVSEA>
To: NAME: Internet Addressee <SMTP%"kevin.freeman@pegnet.com"@INET>

Kevin:

I read Weston's Willamette River SAP and have the following observations:

- 1) Their stated goal is to generate data for a Hazard Ranking System (HRS) evaluation for the River [pgs 1-1 and 3-1]. In addition, they plan on performing individual HRS evaluations for each of the five discrete reachesthat they arbitrarily established. Having performed HRS evaluations for EPARegion IX, I have the following concerns:
 - a) HRS evaluations are pathway specific - air, groundwater, surface water,and soil.
 - b) Each pathway needs an attributable source and targets that would be impacted by the source.
 - c) A stretch of river is not a source by strict HRS interpretation unless you can attribute contamination found in the river with a specific source (as was done for M&B).
 - d) Sampling 1 to 1.5-mile stretches of a river will not allow you to clearly define attribution.
 - e) The site cannot "score" [generate an HRS evaluation score greater than 28.5] without targets. Species under consideration for listing as threatened and recreational fishing don't cut it by HRS standards. If the Willamette was the only source of drinking water for 1.5M people, that would be a target that could generate an HRS score.
- 2) Pg 4-3, 3rd paragraph: Why would they think that there would be any overlying water left in the core that would be needed to be drilled out after the gravity core is braced horizontally?
- 3) pg 4-3 and 4-4: no mention is made how they are going to archive the bottom 2 feet of each core especially after they spill it out into the 5-foot stainless steel tray.

4) Shipping two 2-gallon buckets of Willamette River muck for each porewater analysis will be very expensive. FedEx will either love them or reject the shipment because they are not shipping any of this as dangerous goods.

5) Pg 4-5, Section 4.2.2: I don't even think the CLP program is around anymore.

6) pg 4-7, Section 4.3.2; the last alphanumeric string with all of the zeros in it is basically worthless.

7) pg 4-10: Why decon acetate liners; throw them away. Better yet, cut them at the 3-foot line, cap and save the bottom 2-foot section then spill the upper 3-foot section into the 5-foot compositing/observation tray. [sounds like I've done this stuff before, eh?]

8) pg 4-10: missing nitric acid rinse especially since every sample is being analyzed for metals. Justification of organic solvent rinse is weak. Use IPA if you are worried about generating haz waste.

9) Pg 5-1, Section 5.1: Maybe we could do only 5% field dups for Willbridge?

10) Pg 8-1: 8th reference [1st Weston ref] We should get a copy of this, it will be good background for comparison.

pgeiger@ene.com



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 400, Portland, Oregon 97204-1972

(503) 823-7740, FAX (503) 823-6995

Dean Marriott, Director

MEMORANDUM

DATE: September 24, 1997

TO: Lance Geselbracht, P. E.
Pacific Environmental Group, Inc.

FROM: Nanci M. Snyder *NMS*
Maintenance Engineering
823-7241

RE: Willbridge Terminal Remediation
Right-of-Entry Permit

Per our previous conversations, I would like to confirm in writing what the City of Portland Bureau of Environmental Services (BES) requires for the approval of the Right-of-Entry permit to work in our easement for the Willbridge Terminal Remediation project.

Several people from different departments in BES have reviewed and commented on your request. Their requests must be considered prior to the City of Portland issuing the permit. They are outlined below for your information.

Tom Caufield, BES Maintenance Engineer, insists all costs concerning the future maintenance of the clay barrier and new HDPE liner to be borne by the property owners, not the City of Portland. In the event, the city-owned storm pipe needs repair or replacement, the city will not assume any responsibility for the barrier or liner for repair or replacement, even if the city damages or removes the liner/barrier during repair of the city-owned storm pipe.

The 3 tv inspection video tapes of the city-owned storm system as submitted last week are not sufficient to determine the existing condition of the pipe. I request that you have the storm sewer video inspected again, complete with narration and distances depicted on the tape for the entire length of pipe. To help facilitate this work, we agreed that specifically the stretch of pipe in question needs to be video inspected again; in general, from the edge of Front Street to the outfall at the Willamette River.

Comments from Kelly Hendryx of BES Industrial Source Control indicates he is satisfied with the process to date with one reservation. His final approval is dependent on the final application filed with DEQ, concerning the proposed criteria based on Level 3 Soil

Matrix Score for determining which soils are acceptable for return to the excavation.

John O'Donovan, BES Special Waste Division representative requests is that a representative from the Special Waste Division be included in an advisory capacity for the current and future remediation work proposed at this site. He requested specifically that he or Al Smith be included as an advisory committee member. After our telephone conversation, September 23, 1997, I understand that there is no formal committee established at this point in time. After relating this fact to the Special Waste Division, they would instead, like to receive all draft reports to DEQ and be able to review and comment on such prior to construction.

Please review and comment on the requests stated above. I see no problem issuing the permit once these items are addresssed and agreed to.

WILLISZINGER MEETING

9/29/97

ERIC CONRAD, DEN JENKINS, RENE WHITE, LANCE GOSWAM, KEVIN FREEMAN

IT Acquisition

- NO CHANGE FOR 2 YRS → CONTRACTS STAY THE SAME
- Hire 52 PERSON TO RUN PORTLAND OFFICE BY END OF YEAR
- LANCE LIKELY MOVING TO SEATTLE BUT AFTER NEW HIRE
- COMMITTED TO ON-TIME, ON-BUDGET, & RIGHT THE FIRST TIME
- NEW ENV. ENG W/IN MONTH

Previous Expenditures

- PRP → PROPOSE RETURNING \$2,500 FOR MICHAEL RAPP
- IAP → \$1,300 FOR DIA STUDY CHARGED TO THIS TASK
 - NET DIFFERENCE IS WHAT PSE THINKS IS UNPRODUCTIVE MONEY
 - = \$1,900 → TO GIVE BACK \$2,000
- RI W.P → NET DIFFERENCE \$15,275 FROM CHARGED
 - PROPOSE NOT CHARGING FOR ADDRESSING COMMENTS
 - GIVE BACK \$10,000
 - PSE KNOWS NOW A LOT MORE TIME WHEN STARTED
- 1/4LY MONITORING → NO MORE CHARGES FOR REST OF YEAR SHOW BUDGET → \$43,000
 - LOSING MONEY ARE SAVING BECAUSE 2 PEOPLE
 - WILL REDUCE REPAIRS TO \$3,500 FF.
 - REMAINING MONEY SHOULD BE SUFFICIENT FOR 4TH 1/4
 - ROBERT HASTING FROM SEATTLE HAS PESTICIDE EXPERIENCE

RATES

Protect Level - \$83 - DISCOUNTED FROM \$89

Senior - \$99 - DISCOUNTED FROM \$105

LANCE WILL GET BACK TO US.

Willbridge MTE

9/29/97

60-in IA

- CITY PERMIT → WILL REQUIRE COMPLIANCE W/ DEQ SOIL DISPOSAL REQUIREMENTS & CONDUCT A VIDEO SURVEY
→ MARK SMITH WANTS TO BE PART OF REMEDIAL ADVISORY COMMITTEE
- JOB WALK TOMORROW → BIDS BACK BY 12TH/13TH OCT. → REVIEW DRAWING ASAP & GET TO CONSTRUCTORS & JILL
- GIVE JILL 1-2 WKS FOR REVIEW

27-in IA

- * NEEDS TO KEEP SEPARATE FROM RI BUT MAY BE INCLUDED IN FJ
- HOLBROOK SUGGEST MAY BE CONJOINT BUT MORE LIKELY ITS THE 27-in
- IF IN RI, RESULTS COULD SET CLEANUP LEVELS FOR WHOLE SITE
- DEQ WILL PROPOSE ADD. INVEST. IN 27-in & H.S. AREA
- LIKELY COMING DOWN 27-in

ACTION ITEM

- LANCE TO GET BACK ON RATES WED
- LANCE WILL REVIEW DRAWING AND P&ID DETAIL
- REVIEW DESIGN DOCUMENT & GET LANCE COMMENTS
- MARK WILL PREPARE PROPOSAL FOR 27-in
- NEXT MTG BEFORE THANKSGIVING - P&ID WILL CONTACT
- P&ID WILL BEGIN G.W. SAMPLING SOON



PACIFIC
ENVIRONMENTAL
GROUP, INC.

October 14, 1997
Project 1115-007.3A

Ms. Nanci Snyder
Maintenance Engineering
City of Portland Bureau of Environmental Services
1120 SW Fifth Avenue, Room 400
Portland, Oregon 97204-1972

Re: Response to Comments
September 24, 1997 Memorandum
Right-of-Entry Permit
Doane Avenue Storm Sewer Line
Portland, Oregon

Dear Ms. Snyder:

Pacific Environmental Group, Inc. (PACIFIC), has prepared responses to comments provided by the City of Portland Bureau of Environmental Services (BES) with respect to PACIFIC's September 3, 1997 request for a Right-of-Entry Permit. The Right-of-Entry Permit would allow construction of a physical barrier to prevent separate-phase hydrocarbon (SPH) migration to the Willamette River via backfill surrounding the 60-inch diameter of the Doane Avenue storm sewer pipeline. PACIFIC represents Chevron Products Company (Chevron), Unocal Oil Company (Unocal), and Shell Oil Products Company (Shell), referred to hereafter as the "Responsible Parties" or "RPs".

The RPs are required by the Oregon Department of Environmental Quality (DEQ) to determine the nature and extent of releases at or from the Willbridge Bulk Fuels Area (referred to hereafter as the "Willbridge Facility" or "the site") and to develop, evaluate, and select remedial measures, if necessary, in accordance with State of Oregon regulations. The Willbridge Facility is composed of the Chevron Willbridge Light Products Terminal, the Unocal Portland Terminal and the Shell Willbridge Plant. Control of the Shell Willbridge Plant was transferred to GATX Terminals Corporation (GATX) by sale agreement, with Shell retaining a portion of the environmental responsibility for the terminal. Ownership of the Unocal Portland Terminal was

transferred to Tosco Distribution Company (Tosco) by sale agreement, with Tosco assuming environmental responsibility for the terminal.

PACIFIC and the RPs have reviewed comments provided by BES in the September 24, 1997 memorandum from Nanci Snyder of BES to Lance Geselbracht of PACIFIC. The PACIFIC and RP responses to these comments are presented below.

The RPs accept Mr. Caufield's comments with respect to maintenance of and responsibility for the barrier. Inclusion of these conditions as part of the Right-of-Entry permit is acceptable. The RPs, in turn, request the City of Portland commit to a good-faith effort to provide satisfactory prior notice (excepting *force majeure* conditions), and work with the RPs in the event that proposed maintenance of the storm sewer line could result in damage or destruction of the barrier. Removal of this barrier following receipt of a Record-of-Decision (ROD) for the site would likely constitute a violation of the ROD. The RPs would require sufficient time to address this situation with DEQ and take steps to mitigate possible environmental impacts.

PACIFIC will perform video inspection of the storm sewer line as requested by Ms. Snyder. The line will be inspected from Front Avenue (Manhole MH-8A) to the outfall at the Willamette River. This tape will be submitted to BES prior to commencement of construction activities for review. Following completion of construction, the line will be resurveyed and the tape submitted to BES. Inclusion of this condition as part of the Right-of-Entry permit is acceptable.

In response to Mr. Hendryx's comment, PACIFIC will revise its proposal to DEQ with respect to excavated soil management. As the Willbridge Facility is regulated under DEQ Environmental Cleanup Rules, Underground Storage Tank (UST) Numeric Soil Cleanup Standards do not actually apply to this site. Action levels for media cleanup at the Willbridge Facility will be determined using risk-based concentrations (RBCs) defined through the Remedial Investigation/Feasibility Study (RI/FS) process. However, this process will not be completed until after installation of the Interim Actions (IAs) at the site. PACIFIC's intent is to determine an acceptable soil segregation and disposal criteria for IA work at the site. PACIFIC will revise its approach to soil segregation and assessment as follows:

1. Soils removed during excavation activities will be segregated into "clean" and "impacted" stockpiles using field determination methods (sheen test, PID headspace, etc.).
2. Following excavation, confirmation samples will be collected from the clean and impacted stockpiles at a ratio of one discrete sample per 20 yards of excavated material. Confirmation samples will be analyzed for gasoline

and diesel Total Petroleum Hydrocarbon (TPH) concentrations by Oregon DEQ Methods TPH-G and TPH-D, respectively.

3. Soils will be designated as clean if confirmation samples report non-detect at laboratory method detection limits for both TPH-G and TPH-D. Clean soils are proposed to be returned directly to the excavation.
4. Disposition of impacted soils will be determined through negotiation with DEQ. PACIFIC will suggest contamination levels at which soil could acceptably be returned to the excavation. Disposal methods for impacted soil not returned to the excavation will be proposed to DEQ based on contamination concentration and material volume. The DEQ will have final approval for any returnable contamination concentration or disposal method.

This approach is permissible because: 1) the impacted soil volume likely to be removed cannot be accurately estimated due to potential vertical spreading of contamination from 1996 Willamette River flooding, and 2) no soil RBC cleanup standard has been determined for the site, thus requiring negotiation between DEQ and the RPs for acceptable interim levels. This negotiation would likely be facilitated by knowledge of contamination concentrations and impacted material volume.

In response to Mr. O'Donovan's comment, the RPs offer to supply BES Special Waste Division with final copies of all reports submitted to DEQ regarding site activities performed within the City of Portland storm sewer right-of-way. Documents related to site activities other than those associated with barrier construction are a matter of public record and on file at the DEQ Northwest Region office. All actions executed at the site are performed pursuant to Order on Consent WMCSR-NWR-94-06, signed by DEQ and the RPs on April 6, 1994. Comment by outside parties on actions performed under the Order on Consent is limited to prescribed comment periods; however, the RPs wish to consult and work with BES on issues relating directly to barrier construction around the City of Portland's storm sewer line.

The RPs and PACIFIC are eager to obtain a Right-of-Entry Permit for the storm sewer line so that we may begin barrier installation during the lowest river stage (October). PACIFIC hopes this response adequately addresses your comments and concerns such that the permitting process can move forward.

October 14, 1997
Page 4

If PACIFIC can be of any additional assistance, please contact Kevin Freeman at (503) 639-6305. Thank you for your attention to this matter.

Sincerely,

Pacific Environmental Group, Inc.



Kevin M. Freeman
Project Hydrogeologist



Lance D. Geselbracht, P.E.
Senior Engineer

Attachments: September 24, 1997 Bureau of Environmental Services memorandum to PACIFIC

cc: Mr. Eric Conard, GATX Terminals Corporation
Mr. Martin Cramer, Tosco Distribution Company
Mr. Irv Jenkins, Shell Oil Products Company
Ms. Jill Kiernan, Oregon Department of Environmental Quality
Mr. Rene White, Chevron Products Company



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 400, Portland, Oregon 97204-1972

(503) 823-7740, FAX (503) 823-6995

Dean Marriott, Director

MEMORANDUM

DATE: September 24, 1997

TO: Lance Geselbracht, P. E.
Pacific Environmental Group, Inc.

FROM: Nanci M. Snyder *NMS*
Maintenance Engineering
823-7241

RE: Willbridge Terminal Remediation
Right-of-Entry Permit

Per our previous conversations, I would like to confirm in writing what the City of Portland Bureau of Environmental Services (BES) requires for the approval of the Right-of-Entry permit to work in our easement for the Willbridge Terminal Remediation project.

Several people from different departments in BES have reviewed and commented on your request. Their requests must be considered prior to the City of Portland issuing the permit. They are outlined below for your information.

Tom Caufield, BES Maintenance Engineer, insists all costs concerning the future maintenance of the clay barrier and new HDPE liner to be borne by the property owners, not the City of Portland. In the event, the city-owned storm pipe needs repair or replacement, the city will not assume any responsibility for the barrier or liner for repair or replacement, even if the city damages or removes the liner/barrier during repair of the city-owned storm pipe.

The 3 tv inspection video tapes of the city-owned storm system as submitted last week are not sufficient to determine the existing condition of the pipe. I request that you have the storm sewer video inspected again, complete with narration and distances depicted on the tape for the entire length of pipe. To help facilitate this work, we agreed that specifically the stretch of pipe in question needs to be video inspected again; in general, from the edge of Front Street to the outfall at the Willamette River.

Comments from Kelly Hendryx of BES Industrial Source Control indicates he is satisfied with the process to date with one reservation. His final approval is dependent on the final application filed with DEQ, concerning the proposed criteria based on Level 3 Soil

Matrix Score for determining which soils are acceptable for return to the excavation.

John O'Donovan, BES Special Waste Division representative requests is that a representative from the Special Waste Division be included in an advisory capacity for the current and future remediation work proposed at this site. He requested specifically that he or Al Smith be included as an advisory committee member. After our telephone conversation, September 23, 1997, I understand that there is no formal committee established at this point in time. After relating this fact to the Special Waste Division, they would instead, like to receive all draft reports to DEQ and be able to review and comment on such prior to construction.

Please review and comment on the requests stated above. I see no problem issuing the permit once these items are addresssed and agreed to.

AGREEMENT AND PERMIT OF ENTRY

Site: Willbridge Bulk Fuels Area Facility
Project: Barrier Wall Installation
Doane Avenue Public Storm Sewer Line
R/W #3474

In order to permit Pacific Environmental Group, Inc. (PACIFIC) to proceed with construction of a physical barrier to prevent separate-phase hydrocarbon (SPH) migration to the Willamette River via backfill surrounding the 60-inch diameter of the Doane Avenue storm sewer pipeline, the City of Portland, Bureau of Environmental Services (BES), grants to PACIFIC the right to enter upon the City's easement area northwest of NW Front Avenue to the Willamette River.

PACIFIC is a contractor for Chevron Products Company, TOSCO and GATX Shell Oil Products Company, the "Responsible Parties" (RPs/Permittee).

All actions executed at the site will be performed pursuant to Order on Consent WMCSR-NWR-94-06, signed by DEQ and the RPs on April 6, 1994.

The RPs are hereby authorized to conduct the following activities:

- During excavation and construction, a BES inspector will monitor all work done in the City of Portland public sewer easement. PACIFIC will be responsible for notifying Nick Naval, Jr. at 823-7108 to schedule an inspector for this work.
- Upon completion of construction, PACIFIC will be responsible for reinspecting and video taping the public sewer pipeline and providing the tape to BES.
- Also upon completion of construction, PACIFIC will be responsible for providing to BES Special Waste Division final copies of all reports submitted to DEQ regarding site activities performed within the City of Portland public sewer easement area.

The RPs will be responsible for any damage done to the City of Portland's storm sewer during construction. Damages include costs of all labor and materials to repair or replace the damaged pipe to City of Portland Standard Specifications, plus all inspection costs as required by BES.

In the event the public sewer pipeline requires repair or replacement, the RPs retain all financial responsibility for maintenance of the clay barrier and new HDPE liner, including any damages resulting from the non-negligent activities of the City.

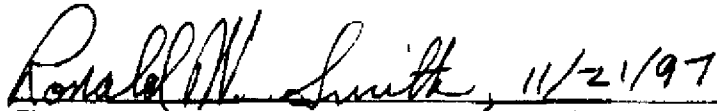
The RPs agree to return the premises and facilities to the condition that existed prior to the activities authorized by this Permit.

The Permittee agrees defend, indemnify and hold harmless the City, its officers, employees and agents from all liability for any claims or damages resulting from the acts or omissions of the Permittee on the property.

In an emergency, PACIFIC will call the Bureau of Maintenance Dispatch at 823-1700. Any other questions may be directed to Nanci Snyder at 823-7241.


This permit is effective from November 18, 1997 to January 31, 1998.


Dated this 21 day of November, 1997.


Chief Engineer, Bureau of Environmental Services


City Engineer

Dated this 21 day of November, 1997.


PACIFIC
By: Lance Geselbracht, Senior Engineer


Authorized Agent of Responsible Parties
By: Marty Cramer, Owner, TOSCO, Inc

\\Mgt\\Nanci.wp

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T. 1 N. R. 1 E, W. 1 M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 575.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

AOC 0922

AGREEMENTS

STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): Tosco Corp

Mailing Address: 5528 NW DOANE AVE., PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWNSHIP 1N, RANGE 1E, SEC. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14948

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

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1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

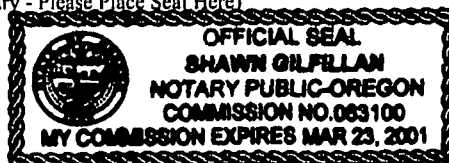
Signature of Property Owner: John Chan for Tosco Corporation

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk
8.00
98034382 11:44am 03/05/98
013 30002660 03 09
B63 1 0.00 5.00 0.00 3.00 0.00

COP0019062

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T.1N. R.1E, W.1M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 596.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.42 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)

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Property Owner Name(s): TOSCO CORP.
Return/
Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWNSHIP: 1N, RANGE: 1E, SECT 18,
SW 1/4 OF SW 1/4

Well Identification Number(s): L14949

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

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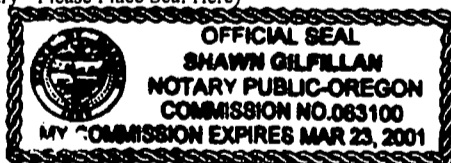
I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Shawn Gilfillan for Tosco Corporation

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan State of Oregon, County of MULTNOMAH
(Signature of Notary Public)

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk



8.00
98034383 11:44am 03/05/98

013 30002660 03 09
B63 1 0.00 5.00 0.00 3.00 0.00

COP0019063

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kirtledge Donation Land Claim, in Sections 18 and 19, T.1N. R. 1E, W.1M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 596.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

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Property Owner Name(s): Tosco Corp.

Return Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO, TOWNSHIP 1N, RANGE 1E, SECT. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14950

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

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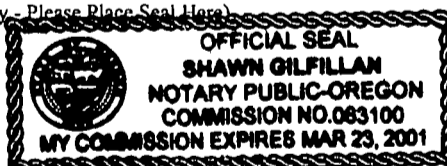
I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Met. Cam for Tosco Corporation

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan State of Oregon, County of MULTNOMAH
(Signature of Notary Public)

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



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After Recording return to Property Owner(s)

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk
8.00
98034384 11:44am 03/05/98
013 30002660 03 09
B63 1 0.00 5.00 0.00 3.00 0.00

COP0019064

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T. 1N. R. 1E, W. 1M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 596.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

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(FILE WITH COUNTY CLERK'S OFFICE)

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Property Owner Name(s): TOSCO CORP.
RETURN Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH COUNTY, TOWNSHIP 1N, RANGE 1E, SECT. 18, SW 1/4 OF SW 1/4
Well Identification Number(s): L14947

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

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I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Shawn Gilfillan FOR TOSCO CORPORATION

Signed or attested before me this 3RD day of DECEMBER, 1997

Shawn Gilfillan
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk
8.00
98034381 11:44am 03/05/98
013 30002660 03 09
B63 1 0.00 5.00 0.00 3.00 0.00

COP0019065

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T.1N. R.1E, W.M., which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

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Property Owner Name(s): Tosco Corp
Mailing Address: 5528 NW DOANE AVE, PORTLAND OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWN 1N, RANGE: 1E, SECT. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14946

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

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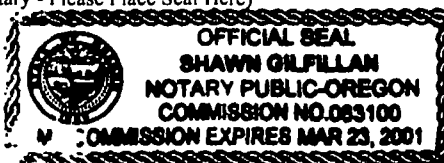
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Signature of Property Owner: [Signature] FOR TOSCO CORPORATION

Signed or attested before me this 3RD day of DECEMBER, 1997

[Signature] State of Oregon, County of MULTNOMAH
(Signature of Notary Public)

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

Recorded in the County of Multnomah, Oregon
C. Swick, Deputy Clerk



8.00
98034380 11:44am 03/05/98

013 30002660 03 09
B63 1 0.00 5.00 0.00 3.00 0.00

COP0019066



January 8, 1998

Loren Garner
Oregon Department of Environmental Quality
2020 SW 4th Avenue, Ste. 400
Portland, Oregon 97201-5884

AOC 0922
Accy CORRESP.

Written Report for Lube Oil Spill
76 Lubricants Company Portland Terminal

Dear Mr. Garner:

In response to your correspondence of December 22, 1997 and in compliance of OAR 340-108-040, please find the enclosed written report concerning the lube oil spill that occurred at the terminal on December 19, 1997. The report includes the completed form provided in your December 22 correspondence as well as a summary of how the incident occurred and response actions taken to date. Copies of relevant supplemental information requested in the report form are attached to the report.

If you have additional questions or require further information, please contact me at 248-1542 or Martin Cramer at 248-1517.

Sincerely,

David Hauck,
Production Foreman

Cc: M. Cramer
G. LeFebvre
A. Rogers

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION

OERS No. 97-3074

- a. Company/Individual Name: 76 LUBRICANTS CO., A DIVISION OF TOSCO CORPORATION
b. Address: 5528 N.W. DOANE AVE
PORTLAND, OREGON 97210
c. Company Contact Person: MARTY CRAMER
d. Phone Number(s): 503-248-1517
e. Specific on-site location of the release (and address if different from above):
SAME AS ABOVE

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

- a. Date/Time Release started: 1-19-97; 16:00 hrs Date/Time stopped: 1-19-97; 17:15 hrs.
b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ N/A
OERS 12-19-97, 22:20 hrs., Randy Parr - he contacted ODEQ
~~NRC~~ 12-23-97, 16:10 hrs., PDX BUREAU OF ENVIRONMENTAL SERVICES, STEVE ROSENBERGER
Other (describe): 12-19-97, 22:15 hrs., CITY OF PORTLAND, ERIC DEBERRY
c. Person(s) reporting release: MARTY CRAMER - TOSCO ENVIRONMENTAL REMEDIATION.
d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
NAME: UNIGLIDE 100 (LUBRICATING OIL), QUANTITY: @ 2000 GALLONS.
PHYSICAL STATE: LIQUID.
Please attach copies of material safety data sheets (MSDS) for released material(s).
e. The release affected: ☒ Air ☒ Groundwater ☐ Surface Water ☒ Soil ☐ Sediment
f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
WILAMETTE RIVER, DISTANCE: @ 1500 FEET.
Has the release reached the surface water identified above?: ☐ Yes ☒ No
Could the release potentially reach the surface water identified above? ☐ Yes ☒ No
Explain: SITE WATER DRAINS INTO AN ON-SITE OIL/WATER SEPARATOR WHICH DISCHARGES INTO THE CITY SEWER SYSTEM.
g. Depth to nearest aquifer/groundwater: 12 FEET
Is nearest aquifer/groundwater potable (drinkable)? ☐ Yes ☒ No
Has the release reached the nearest aquifer/groundwater? ☐ Yes ☒ No
Explain: OIL WAS EXTREMELY VISCOUS AND DID NOT PENETRATE SOIL MORE THAN ONE FOOT IN DEPTH.

- h. Release or potential release to the air occurred? ☒ Yes ☐ No

Explain: OIL PRODUCT HAS VERY LOW VOLATILITY, THEREFORE RELEASE TO AIR WAS MINIMAL.

- i. Was there a threat to public safety? ☐ Yes ☒ No
j. Is there potential for future releases? ☒ Yes ☐ No

Explain: MECHANICAL/EQUIPMENT FAILURE IS A POTENTIAL FOR FUTURE RELEASE.

- k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):

PRODUCT INVOLVED WAS OF A NON HAZARDOUS CLASSIFICATION - EMERGENCY EVACUATION NOT NECESSARY. EXPOSURE TO FISH KILL NOT AN ISSUE SINCE PRODUCT WAS CONTAINED ON SITE.

- l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:

(SEE ATTACHED)

3 - SITE INFORMATION

- a. Adjacent land uses include (check all that apply and depict on site maps):

☐ Residential ☐ Commercial ☐ Light Industrial ☒ Heavy Industrial
☐ Agricultural ☐ Other (describe):

- b. What is the population density surrounding the site: MINIMAL - PRIMARILY INDUSTRIAL

- c. Is the site and/or release area secured by fencing or other means? ☒ Yes ☐ No

- d. Soil types (check all that apply): ☐ alluvial ☐ bedrock ☐ clay ☒ sandy
☒ silt ☐ silty loam ☒ artificial surface (cement/asphalt/etc.)

- e. Describe site topography: RELATIVELY FLAT WITH LOCALIZED GRADING TOWARDS PROCESS WATER CATCH BASINS.

4 - CLEANUP INFORMATION

- a. Was site cleanup performed? ☒ Yes ☐ No

If No, explain: _____

- b. Who performed the site cleanup?

Company Name: <u>TOSCO</u>	<u>C.E.T.</u>
Address: <u>5528 N.W. DOARNE AVE</u> <u>PORTLAND, OREGON 97210</u>	<u>5315 N.W. ST. HELENS RD</u> <u>PORTLAND, OREGON 97210</u>
Cleanup Supervisor: <u>ROGER MCGOWNE</u>	<u>SCOTT GILFILLAN</u>
Phone Number(s): <u>503-248-1558</u>	<u>503-227-6797</u>

- c. Has all contamination been removed from the site? ☐ Yes ☒ No

If No, explain: WATER CONTAMINATION PUMPED TO LOCAL TANK STORAGE FOR SEPERATION
OF OIL AND WATER. SOIL/GRAVEL CONTAMINATION TO BE REMOVED BY GET.

- d. Estimated volume of contaminated soil removed: NONE TO DATE
- e. Estimated volume of contaminated soil left in place: 4.0 CUBIC YARDS (TO BE REMOVED)
- f. Was a hazardous waste determination made for cleanup materials? ☒ Yes ☐ No
- g. Based on the determination, are the cleanup materials hazardous wastes?
☐ Yes ☒ No If Yes, list all waste codes: _____

- h. Was contaminated soil or water disposed of at an off-site location? ☐ Yes ☒ No
If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: (CONTAMINATED SOIL TO BE TAKEN TO T.P.S. TECHNOLOGIES INC.

Address: 9333 N. HARBOR GATE ST.
PORTLAND, OREGON 97203

Facility Contact: STEVE EMMONS

Phone Number(s): 503-735-9525

- i. Is contaminated soil or water being stored and/or treated on-site? ☒ Yes ☐ No
If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

CONTAMINATED WAS PUMPED INTO ON-SITE STORAGE TANK TO ALLOW FOR
OIL AND WATER SEPERATION. WATER DECANTED INTO PROCESS WATER
SEPERATOR. OIL STORED IN ON-SITE SUMP TANK.

- j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

(SEE ATTACHED)

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

- a. Were samples of contaminated soil collected? ☐ Yes ☒ No ☐ N/A
- b. Were samples of contaminated water collected? ☐ Yes ☒ No ☐ N/A
- c. Were samples collected to show that all contamination had been removed?
☐ Yes ☒ No ☐ N/A
- d. Describe sampling activities, results and discuss rationale for sampling methods:

WILL COLLECT SAMPLES OF CONTAMINATED SOIL PRIOR TO EXCAVATION
ACTIVITIES. CONFIRMATION SAMPLES WILL ALSO BE TAKEN
FOLLOWING COMPLETION OF EXCAVATION.

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

- ☒ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.
- ☒ Material Safety Data Sheet (MSDS) for released material(s) attached.
- N/A Sampling data/analytical results attached.
- N/A Receipts/manifests (if any) for disposal of cleanup materials attached.
- N/A Contractor reports (if any) attached.

ATTACHMENT

At the 76 Lubricants Company Portland Terminal on 12/19/97 at 16:00hrs., upon completing his shift, the blending department lead man related turnover information to remaining blending personnel indicating a RR tank car pump-off in progress as well as a visual confirmation at @ 16:00 hrs. of the tank transfer of Uniguide 100 from tank 4388 via the new air pump to tank 4321. At 16:55 hrs., upon finishing bulk truck loading and related paperwork remaining blending personnel returned to the blending room office and checked the status of both transfers on the computer tank gauge display screen. Previous verification confirmed that both products would properly fit into the respective tanks being filled. After this status check he proceeded to take a coffee break in the terminal boiler room.

After 15 minutes (@ 17:10 hrs.) blending personnel returned to the blending room office to review the daily activity sheet which indicated remaining work responsibilities to be performed by the end of his shift. He then proceeded outside to physically inspect both transfers. At this time (@17:15 hrs.) he observed an oil spill of the Uniguide 100 product that covered approximately a 25 by 60 foot dimension of the lower lube pump cell area directly next to the warehouse. He immediately contacted the terminal head operator and then proceeded to turn off the air pump at the barrel filler control panel. At @ 17:25 hrs. he then contacted the warehouse production foreman who was still on the premises.

The Terminal Head Operator confirmed that oil product from the spill had not reached the oil water separator and upon recommendation from the Terminal Maintenance Supervisor he turned off valves and pumps at Lift Station #1 - directly west of the bulk lube oil loading rack - to prevent the possibility of feeding spilled oil product to the oil water separator. Arrangements were made to immediately begin removing oil product from both manhole # 1 and Lift Station #1 by use of a company portable sump pump/ slop tank.

It was determined from before and after tank gauging information that @ 2000 gallons of product was released from the spill. On the evening of the incident approximately 1800 gallons of product was recovered by the company portable sump pump/ slop tank from Manhole #1 and Lift Station #1 and then pumped into slop tank 36. Absorbent pads were also placed throughout the spill area that evening.

On 12/20/97 beginning at @ 6:00 A.M. an additional 900 gallons of oil and water were pumped out of Man Hole #1 and Lift Station #1 by members of the maintenance department using the company portable sump pump/ slop tank. At @ 10:00 A.M. a 4000 gallon capacity vacuum truck from C.E.T. arrived on scene and proceeded to pump out additional oil/ water accumulation from the lube cell where the spill occurred. Rain accumulation from the previous evening had caused additional water to fill the lube cell area since drainage could not occur after valves and pumps to the oil water separator had been disengaged at Lift Station #1.

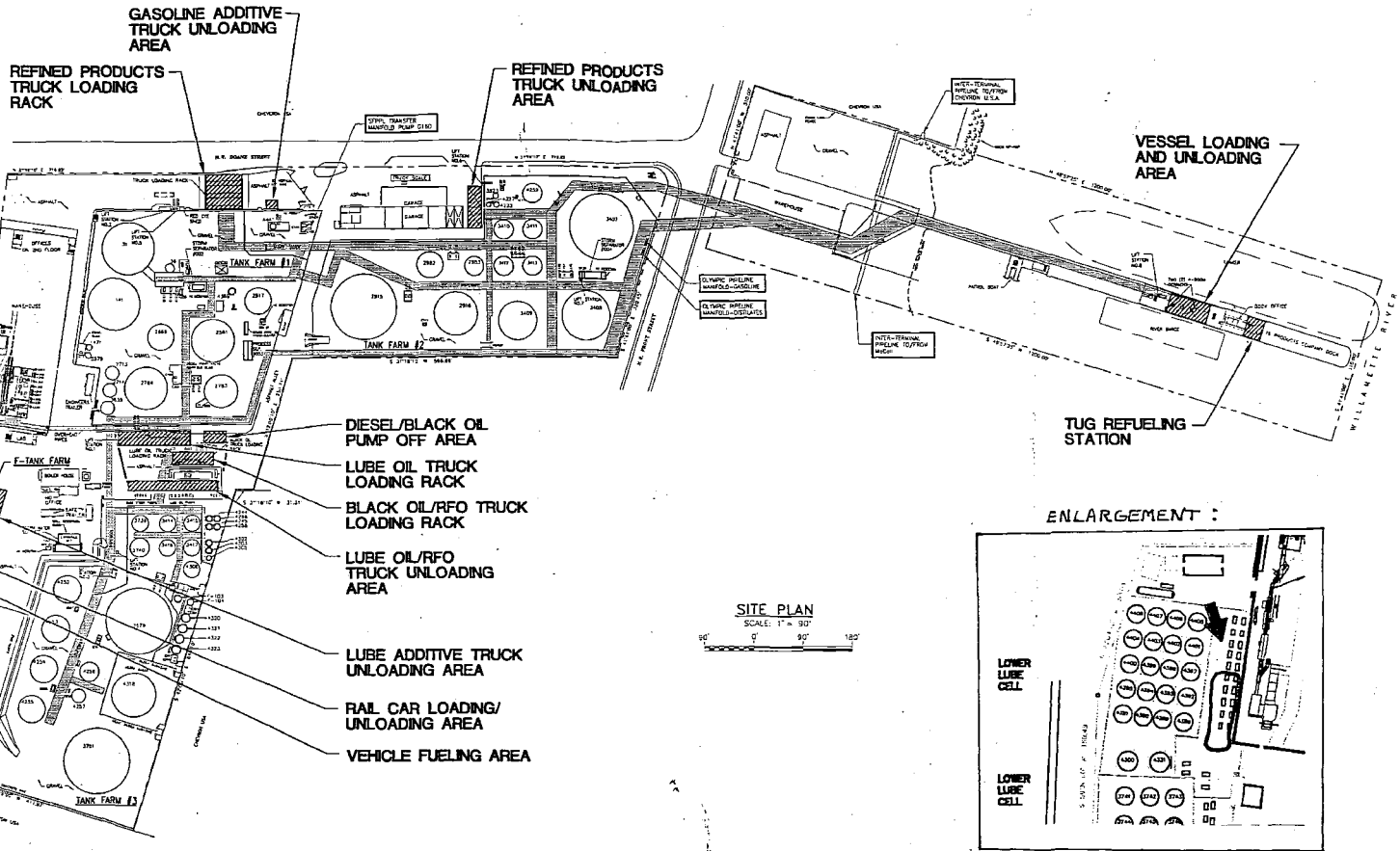
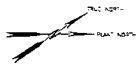
That same morning the remainder of the spilled product which had sprayed onto property equipment and walking surfaces was power washed by company personnel and vacuum pumped by C.E.T. at the lube cell site.

All water contaminated in this incident was pumped into slop tank #36.

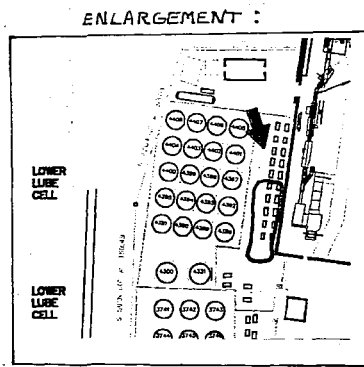
Soil/ gravel contamination in lower lube cell spill site is estimated at @ 3.5 cubic yards. Gravel mixture will be removed and replaced by C.E.T. Contaminated mixture will be disposed off site at T.P.S. Technologies, Inc.

2.

Company personnel from Administration, Environmental, H.E.S. , and Maintenance departments were at the scene the night of the spill and the following morning to coordinate incident investigation, clean up strategies, and notification requirements. The Tosco Portland Terminal Environmental Remediation Specialist, contacted regulatory agencies. The City of Portland was contacted on 12/19/97 at 22:15 hrs., the OERS contacted on 12/19/97 at 22:20 hrs., the ODEQ on 12/19/97 via OERS, and the Portland Bureau of Environmental Services on 12/23/97 at 16:10 hrs.



SITE PLAN
SCALE: 1" = 30'



DRAWING NO.	REFERENCE DRAWINGS	REV. NO.	DATE	REVISED	DRAWN BY	CHECKED BY
		0	09/12/97	FOR INFORMATION ONLY	DAB	KJP

TOSCO
Tosco Distribution Company
A Division of Tosco Corporation
5528 NW Duane St.
Portland, Oregon 97210

ALPHA ENGINEERS and CONSTRUCTORS, INC.
1140 SW 3rd Ave., Suite 200, Portland, OR 97204 (503) 227-3177

DRAWN BY	D.B. STUBBS	PORTLAND TERMINAL	
CHECKED BY	KJP	PORTLAND, OREGON	
APPROVED BY	AK	SITE PLAN	
		TRANSFER LOCATIONS	
SCALE	AS SHOWN		
DATE	07/30/97	DRAWING NO.	SHEET
		0608-C-1201	1 OF 1
			NO.

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mult. County Recorder
421 SW 6th Ave.
Room 308
Portland, OR 97204

4a. Article Number

4b. Service Type

- | | |
|--|---|
| <input checked="" type="checkbox"/> Registered | <input type="checkbox"/> Insured |
| <input checked="" type="checkbox"/> Certified | <input type="checkbox"/> COD |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Return Receipt for Merchandise |

7. Date of Delivery

3/5/98

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

UNITED STATES POSTAL SERVICE



Official Business

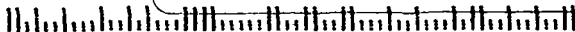
PENALTY FOR PRIVATE
USE TO AVOID PAYMENT
OF POSTAGE, \$300



Print your name, address and ZIP Code here

Attn: M. Cramer

Tosco Distribution
P. O. Box 76
Portland, OR 97207
5528 NW Doane Avenue
Portland, OR 97210





Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207

March 3, 1998

Multnomah County Recorder
421 SW 6th Avenue, Rm. 308
Portland, OR 97204

AOC 0922
PERMITS

Re: Oregon Well Ownership Information Forms

To Whom it May Concern;

In response to a request from Lisa Juul of the Oregon Water Resources Department Well Identification Program, please find the enclosed Oregon Well Ownership Information Forms for the five groundwater monitoring wells installed at the Tosco Portland Terminal. Also enclosed is a check for \$40.00 to cover the costs of the recording fees (i.e., \$8.00/form). Please be advised that Tosco purchased the terminal from Unocal on April 1, 1997 and these wells were installed prior to the acquisition in response to a spill Unocal experienced at the terminal. Tosco is, however, managing the associated remediation activities for Unocal and has assumed responsibility for the wells on Unocal's behalf.

These forms were submitted previously but rejected due to an inadequate legal description and the lack of a return address even though the form does not ask for a return address. Therefore, I have added a complete legal description to each form and identified that the mailing address is the same as the return address.

If you have any questions, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Martin A. Cramer'.

Martin A. Cramer
Project Manager, Remediation

/mac

Enclosures

COP0019077

DESCRIPTION.

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T.1N. R.1E, W.M., which point is North $31^{\circ}16'10''$ East 391.18 feet from an angle corner in said claim line; thence South $50^{\circ}38'30''$ East 10.10 feet to the true point of beginning; running thence North $31^{\circ}16'10''$ East along the easterly line of N.W. Doane St. 376.56 feet; thence North $24^{\circ}34'10''$ East 85.71 feet; thence North $31^{\circ}16'10''$ East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South $41^{\circ}41'$ East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South $31^{\circ}16'10''$ West 596.69 feet; thence South $42^{\circ}06'10''$ East 250.71 feet; thence South $31^{\circ}16'10''$ West 31.31 feet; thence South $42^{\circ}06'10''$ East 646.10 feet; thence South $48^{\circ}19'$ West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North $56^{\circ}38'50''$ West 108.82 feet; thence North $42^{\circ}06'10''$ West 406.45 feet; thence South $31^{\circ}16'10''$ West 102.12 feet; thence North $56^{\circ}39'$ West 150.48 feet; thence North $42^{\circ}06'10''$ West 88.03 feet; thence North $31^{\circ}16'10''$ East 65.31 feet; thence North $50^{\circ}38'30''$ West 346.72 feet to the place of beginning.

DESCRIPTION OF LEASED AREA N.E. OF N.W. FRONT AVE.

Beginning at the intersection of the westerly line of the George Kittridge Donation Land Claim with the northeasterly line of N.W. Front Ave. in Section 18, T.1N. R.1E, W.M.; running thence North $41^{\circ}41'$ West along said northeasterly line of N.W. Front Avenue 153.39 feet; thence North $48^{\circ}57'25''$ East 1200.0 feet to the harbor line of the Willamette River; thence South $41^{\circ}41'$ East along harbor line 310.0 feet; thence South $48^{\circ}57'25''$ West 1200.0 feet to the northeasterly line of N.W. Front Ave.; thence North $41^{\circ}41'$ West 156.61 feet to the place of beginning.

RIVER



Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207

December 5, 1997

Multnomah County Recorder
421 SW 6th Avenue, Rm. 308
Portland, OR 97204

Re: Oregon Well Ownership Information Forms

To Whom it May Concern;

In response to a request from Lisa Juul of the Oregon Water Resources Department Well Identification Program, please find the enclosed Oregon Well Ownership Information Forms for the five groundwater monitoring wells installed at the Tosco Portland Terminal. Also enclosed is a check for \$40.00 to cover the costs of the recording fees (i.e., \$8.00/form). Please be advised that Tosco purchased the terminal from Unocal on April 1, 1997 and these wells were installed prior to the acquisition in response to a spill Unocal experienced at the terminal. Tosco is, however, managing the associated remediation activities for Unocal and has assumed responsibility for the wells on Unocal's behalf.

If you have any questions, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in black ink, appearing to read 'Martin A. Cramer'.

Martin A. Cramer
Project Manager, Remediation

/mac

Enclosures

cc: Anita Rogers, Tosco Distribution Co.
Dennis Coey, Tosco Distribution Co.

COP0019079

MULTNOMAH COUNTY
RECORDING SECTION

WE REGRET IT IS NECESSARY TO RETURN THE ATTACHED UNRECORDED DOCUMENT(S) FOR THE FOLLOWING REASON(S):

☒ Does not meet following standards; if unable to comply – add \$20.00 to fee (ORS 205.327)

____ ORS 205.232 - paper-weight/larger than 8-1/2" x 14"/text size

☒ ORS 205.234 - does not comply with first page requirements

____ lacks consideration

____ lacks mailing address for future tax statements

☒ lacks return address

____ parties not clearly identified

____ name of transaction not clearly identified

() Illegible

☒ Legal description: incomplete / illegible / missing / incorrect

() Re-recording statement has not been included on first page of document. Please state nature of the correction on the first page. Example: "This document is being re-recorded to correct or add the legal description."

() Lacks signatures.

() NOTARY: notary stamp missing / signature missing
notary stamp illegible / document not notarized

() Book/Page # or instrument # of document being assigned / released is:
missing / incorrect

() Incorrect county. Record in _____ County.

() Document must be original with original signatures.

() In MULTNOMAH COUNTY, property will not transfer to a "trust" without naming a "trustee" in addition to the "trust" name.

() Does not meet any statutory requirement for recording in the State of Oregon.

() CHECK: not signed / not enclosed / incorrect. TOTAL FEE DUE: \$ _____

() OTHER: _____

THANK YOU. MULTNOMAH COUNTY RECORDING SECTION

421 SW 6TH AVE #308

PORTLAND OR 97204

(503) 248-3034

(TELEPHONE HOURS: 9:00 a.m.-4:30 p.m.)

By:

NW

Date:

12-9

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kimridge Donation Land Claim, in Sections 18 and 19, T.1N. R.1E, W.1M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 596.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.72 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°37' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°35'30" West 346.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, **record the following information in the property deed records at the appropriate County Clerks Office.** Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): TOSCO CORP.
Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWNSHIP 1N, RANGE 1E, SECT 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14950

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource,
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

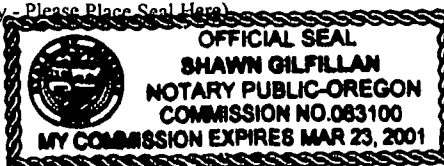
Signature of Property Owner: Mark Linn for TOSCO CORPORATION

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

COP0019081

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T. 1N. R. 1E, W. 1M, which point is North 31°16'10" East 39.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 596.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 645.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): Tesco Corp.

Return/
Mailing Address: 5528 NW Doane Ave., Portland, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWNSHIP 1N, RANGE 1E, SECT 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14949

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Shawn Gilfillan for Tesco Corporation

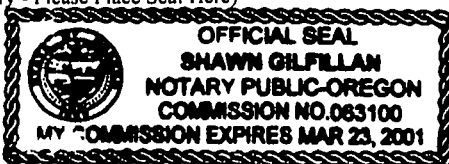
Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan

(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

COP0019082

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kittridge Donation Land Claim, in Sections 18 and 19, T.1N.R.1E, W.M., which point is North 31°16'10" East 371.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°31' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): TOSCO CORP

Return Mailing Address: 5528 NW DOANE AVE., PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWNSHIP 1N, RANGE 1E, SECT. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14948

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Shawn Gilfillan for Tosco Corporation

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

COP0019083

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Kitzridge Donation Land Claim, in Sections 18 and 19, T.1N. R.1E, W.1M., which point is North 31°16'10" East 371.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°38' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

STATE OF OREGON WELL OWNERSHIP INFORMATION FORM (FILE WITH COUNTY CLERK'S OFFICE)

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): Tosco Corp.

Return Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description): MULTNOMAH COUNTY, TOWNSHIP 1N, RANGE 1E, SECT. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14947

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Walt Brown for Tosco Corporation

Signed or attested before me this 3RD day of December, 1997

Shawn Gilfillan
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001

(Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

COP0019084

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co.'s freight yards with the westerly line of the George Knitridge Donation Land Claim, in Sections 18 and 19, T. 1N. R. 1E, W. 1M, which point is North 31°16'10" East 391.18 feet from an angle corner in said claim line; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°37' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°35'30" West 346.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): Tosco Corp.

Mailing Address: 5528 NW DOANE AVE, PORTLAND OR 97210

Deed Recording Number (or legal description): MULTNOMAH CO., TOWN 1N, RANGE 1E, SECT. 18, SW 1/4 OF SW 1/4

Well Identification Number(s): L14946

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: [Signature] FOR TOSCO CORPORATION

Signed or attested before me this 3RD day of DECEMBER, 1997

[Signature]
(Signature of Notary Public)

State of Oregon, County of MULTNOMAH

My Commission Expires: MARCH 23, 2001 (Notary - Please Place Seal Here)



Recording Office Use Only
After Recording return to Property Owner(s)

COP0019085

Brace Hovis? }
Mavis }
Jim }
Till }

PAVE-CONTROL - ROR

Eric

Lance

Kevin

Charles

Jim

DEQ WILSHIRE MTD

4/8/98

Risk Analysis Comments

- Can use Pkg 3 FOR GUIDELINES BUT DON'T INCLUDE PROTECT EXPOSURE TO MTS NAME TO USE REG 9 GUIDELINES - CAN COMBINE OR SIMPLY UPDATE REG 9 GUIDELINES w/ Pkg 3
- RECREATION USE SCENARIO - CAN ADDRESS EXISTING/PLANNED AS EXISTING SCENARIO BUT BRUCE WILL TALK TO MAJIM/JIM → MAVIS SAID NEED TO SUPPORT POSITION WITH SOME FACTS (Lk LATER PROTS)
- TRANSPORT SCENARIO - NEED TO BE RUN FOR LINDSEY SITE AS IF NO INSTITUTION CONTROLS WERE PRESENT - IF SIGNIFICANT RISK IS PRESENT, CAN USE INSTITUTIONAL CONTROLS TO ADDRESS UNDER FS
- TRANSPORT #74 - USE 25 YRS VS 7 YR
- WILDLIFE HABITAT #75 - HIN DO LATERAL ASSESSMENT TO FACILITIES
- DEQ FINISHED ECO RISK GUIDELINES - WILL SEND TO F&E

Appendix A

- #89 - MAP IS CORRECT (OR LOCATIONAL)
- #94 - HIGH CLARITY SEDIMENT COLLECTION - DEFERS ON ANALYSIS
- SPILLAGE → IS LISTED AS THE COULD FORCE WITH AN AMBIGUOUS WQ. SOME WITHIN ARE MORE STRINGENT THAN WE COULD USE BASED ON RISK
- MINIMUM BIRD TREATY ACT - MAY CREATE PROBLEMS

GENERAL COMMENTS

- HA - HIN PREPARE LINDSEY CORRIDOR MAP EXTENDING 9 EXISTING LOCATIONS w/ FLEETPROFILES
- SAMPLING LINES - MAVIS ~~STAFF~~ CONCERNED ABOUT MAVIS LINDSEY IN SAMPLING EXPOSED TO VAPORS → KEVIN CONCERNED ABOUT DIFFICULTY IN EXCLUDING POSITION SOURCE OUTSIDE THE LOCATIONS
- MAVIS BELIEVED THAT WE DON'T HAVE TO SAMPLE ALL LINDSEY CORRIDORS INVERSE THEY COULD SEARCH AT A CORRUPT OFFSITE → IF SO WE WOULD HAVE A FEW SAMPLES
- #2 → DISCUSSED TRANSDUCER STUDY & PHAS TESTS INCLUDING METHODS OF 2 MEN
→ Mavis & Jim agreed
- * - JIM WOULD PREFER REMOVED RESPONSES TO COMMENTS - MAVIS DID NOT
- #15 - ADD ANALYSIS - LANCE SUGGESTED ADD PRACTICES BIRDVIEW TO ESTABLISH WHAT CONDITIONS WE BRUCE NEED TO LOOK AT → JIM & MAVIS AGREED - ALSO MENTION TO BRUCE A LINDSEY CORRIDOR SCENARIO - LINDSEY CORRIDOR - RT 11 D

COP0019086

D3CQ WILKESBORO MTD (CONT.)

4/8/98

- #13 (cont.) - Cu + Zn could be eliminated based on background levels
- can use GLEND DATA if collected properly → Jim includes these metals & VOCs as it had shown up in some past sampling events on the detection limit was above screening levels

LOCALITY

- Jim investigate GS & McLean and include APPENDIX in H.P.
- PEG will submit letter to D3CQ concerning CONT FUND AT G-S PLACE

RELEASE MAP

- #10 → PROPOSE TO ONLY INCLUDE SPILLS WHERE WE HAVE DEFENSIVE DATA
- NOT INCLUDE ANECDOTAL INFO IN TABLE → Jim's intent was to have us identify potential source areas → ^{Jim} GLENDALY. ACROSS 4/ APPROACH →
- MAINS DID NOT RESPOND

HOT SPOTS

- PROPOSED USING 3411 & CATCH DATA SPILL AS SUGGESTED FOR DETERMINING RISK → IF RISK, THEN NO NEED TO LOOK FOR OTHER HOT SPOTS AS WOULD NOT BE DRINKING FOR RISK - MAIN & JIM SAID TO GO AHEAD
- & PROPOSED AS THEY WERE TO DISCUSS INTERNALLY, NOT OPPOSE TO
- COPYLEFT

JIM REQUESTED TO BE KEPT APPRISSED OF OTHER SITUATIONS
W/4 BACKGROUND STUDY ON FUELING HOT SPOTS



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

CERTIFIED MAIL RETURN RECEIPT REQUESTED

April 17, 1998

Ron Schwab
Unocal
376 S. Valencia Avenue
Berea, CA 92621

Gerald O'Regan
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583-0804

Irv Jenkins
Shell Oil Products Company
P.O. Box 2099
Houston, TX 77252-2099

Martin Cramer
TOSCO Corporation
5528 NW Doane Avenue
Portland, OR 97210

Re: **NOTICE OF NONCOMPLIANCE**
NON-SP-98-005
Outfall 22 Petroleum Release, OERS No. 98-0708

Gentlemen:

This Notice is being issued for an active release of petroleum into the Willamette River from Outfall 22 of the storm drainage system in Portland, Oregon. There have been historic problems with petroleum contamination reaching the river in the vicinity of this outfall, due to the migration of separate phase hydrocarbons (SPH) through the subsurface from releases at the bulk petroleum terminals in the area. Over the past several weeks a regular release of several gallons per day of recoverable petroleum has been discharging from the outfall. The source was recently tracked to compromised joints in the storm line in the vicinity of the clay barrier. A camera investigation of the line showed groundwater and SPH seeping into the pipeline through joints within an area where monitoring has shown SPH is present on the groundwater.

This Notice is being sent to you jointly as participants in the Willbridge Bulk Fuel Area cleanup project, and because you may be viewed as "owning or having control over any oil or hazardous material spilled or released" from the subsurface of the Willbridge area (see ORS 466.640, copy enclosed). The petroleum entering the storm drainage line is causing pollution of waters of the state in violation of ORS 468B.025, (copy enclosed).

This is a Class I violation and is considered to be a significant violation of environmental law. Should a similar violation occur, or if the violation is not promptly corrected, we will refer your file to the Department's Enforcement Section with a recommendation to proceed with a formal enforcement action which may result in a civil penalty assessment. Civil penalties can be assessed for each day of violation.

This letter also notifies you that the problem is an active release to surface waters that is subject to our spill statutes and rules. The release must be immediately stabilized and isolated from the river. However, the overall coordination on the contamination and cleanup issues at the site should continue under the consent order and the oversight of Jill Kiernan. This notice is being issued under the spill program authorities to address the emergency response and stabilization measures necessary to protect the river.

The following actions should occur to correct the current violation:

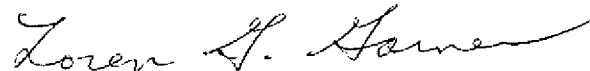
1. Continue to maintain booms and sorbent materials at the outfall on a daily basis to recover as much of the SPH as practicable until the release into the storm system has been stopped.
2. Submit a plan for repair or stabilization of the leaking pipe joints to the Department by April 30, 1998, and implement that plan to eliminate the flow of SPH into the storm line by May 12, 1998. The plan must be coordinated through the City of Portland so that the work will be able to proceed without administrative delays.
3. Evaluate and immediately implement any reasonable measures using the existing recovery and monitoring systems at the site that may be effective in dewatering or recovering SPH from the subsurface where the fuel is seeping into the pipe. A reduction of the hydraulic head or a reduction in the amount of SPH present outside the leaking joints will reduce the amount of SPH being released to the river until the pipe repair or stabilization measures can be completed.

TOSCO Corporation has proceeded with appropriate investigation and response measures since the problem was identified. We will assume that they will continue as the lead in representing the group of companies unless we are notified of a change in that lead. We ask the cooperation and support of all parties and agencies in helping the necessary stabilization measures to go forward quickly and effectively to protect the Willamette River from further pollution.

Outfall 22 Petroleum Release
April 17, 1998
Page 3

If you have questions concerning these issues, please contact Jill Kiernan at (503) 229-6900 or myself at (503) 229-5614.

Sincerely,



Loren G. Garner
Environmental Engineer
Northwest Region

Enclosures: Spill Statutes, ORS 466.640
Water Quality Statutes, ORS 468B.025

cc: Enforcement Section, DEQ
Jill Kiernan, DEQ
Chief Rick Thomas
U.S. Coast Guard
6767 N. Basin Avenue
Portland, OR 97217
John Holtrop
City of Portland BES
6543 N. Burlington Avenue
Portland, OR 97203-5452
Lance Geselbracht
Pacific Environmental Group, Inc.
7233 SW Kable Lane, Suite 900, Bldg F
Portland, OR 97224-7183
Eric Conard
GATX Tank Storage Terminals Corporation
P.O. Box 9007
Long Beach, CA 90810-0007

COP0019092

mum concentration of PCB is prescribed by federal law, rule or regulation shall not be allowed a concentration of PCB higher than that federal maximum. [Formerly 468.903]

466.515 Electric transformers or capacitors exempted. Notwithstanding ORS 466.510:

(1) PCB or an item, product or material containing PCB may be sold for use or used in this state if it is used in a closed system as a dielectric fluid for an electric transformer or capacitor pursuant to rules of the commission to insure the public health. However, upon adequate documentation of the availability of reasonable substitutes which meet performance standards and environmental acceptability, the commission after public hearing by rule may modify these exclusions in whole or in part by requiring the phasing in of the substitute or substitutes.

(2) An item, product or material containing PCB may be manufactured for sale, sold for use or used in this state pursuant to an exemption certificate issued by the department under ORS 466.520. [Formerly 468.906]

466.520 Exemption certificates; applications; conditions. (1) A person may make written application to the department for an exemption certificate on forms provided by the department. The department may require additional information or materials to accompany the application as it considers necessary for an accurate evaluation of the application.

(2) The department shall grant an exemption for residual amounts of PCB remaining in electric transformer cores after the PCB in a transformer is drained and the transformer is filled with a substitute approved under ORS 466.515.

(3) The department may grant an exemption for an item, product or material manufactured for sale, sold for use, or used by the person if the item, product or material contains incidental concentrations of PCB.

(4) In granting a certificate of exemption, the department shall impose conditions on the exemption in order that the exemption covers only incidental concentrations of PCB.

(5) As used in this section, "incidental concentrations of PCB" means concentrations of PCB which are beyond the control of the person and which are not the result of the person having:

(a) Exposed the item, product or material to concentrations of PCB.

(b) Failed to take reasonable measures to rid the item, product or material of concentrations of PCB.

(c) Failed to use a reasonable substitute for the item, product or material for which the exemption is sought. [Formerly 468.909]

466.525 Additional PCB compounds may be prohibited. The commission after hearing by rule may include as a PCB and regulate accordingly any chlorinated biphenyls, terphenyls, higher polyphenyls, or mixtures of these compounds that have functional groups attached other than chlorine if that functional group on the chlorinated biphenyls, terphenyls, higher polyphenyls, or mixtures of these compounds is found to constitute a danger to public health. [Formerly 468.912]

466.530 Prohibited disposal of waste containing PCB. After October 4, 1977, a person shall not dispose of solid or liquid waste resulting from the use of PCB or an item, product or material containing or which has contained a concentration equal to or greater than 100 ppm of PCB except in conformity with rules of the commission adopted pursuant to ORS 466.005 to 466.385 and 466.992. [Formerly 468.921]

466.540 [1987 c.539 §52; 1987 c.735 §1; 1989 c.171 §60; renumbered 465.200 in 1989]

466.547 [1987 c.735 §2; renumbered 465.205 in 1989]

466.550 [1987 c.735 §3; renumbered 465.210 in 1989]

466.553 [1987 c.735 §4; renumbered 465.400 in 1989]

466.555 [1987 c.735 §5; renumbered 465.420 in 1989]

466.557 [1987 c.735 §6; 1989 c.485 §1; renumbered 465.215 in 1989]

466.560 [1987 c.735 §7; 1989 c.485 §9; renumbered 465.220 in 1989]

466.563 [1987 c.735 §8; 1989 c.485 §10; renumbered 465.245 in 1989]

466.565 [1987 c.735 §9; renumbered 465.250 in 1989]

466.567 [1987 c.735 §10; renumbered 465.255 in 1989]

466.570 [1987 c.735 §11; renumbered 465.260 in 1989]

466.573 [1987 c.735 §12; renumbered 465.315 in 1989]

466.575 [1987 c.735 §13; renumbered 465.320 in 1989]

466.577 [1987 c.735 §14; renumbered 465.325 in 1989]

466.580 [1987 c.735 §15; renumbered 465.330 in 1989]

466.583 [1987 c.735 §16; renumbered 465.335 in 1989]

466.585 [1987 c.735 §17; renumbered 465.340 in 1989]

466.587 [1987 c.735 §18; 1989 c.485 §11; renumbered 465.375 in 1989]

466.590 [1987 c.735 §19; 1989 c.833 §§113,169; 1989 c.966 §53; renumbered 465.380 in 1989]

SPILL RESPONSE AND CLEANUP OF HAZARDOUS MATERIALS

466.605 Definitions for ORS 466.605 to 466.680. As used in ORS 466.605 to 466.680 and 466.990 (3) and (4):

(1) "Barrel" means 42 U.S. gallons at 60 degrees Fahrenheit.

(2) "Cleanup" means the containment, collection, removal, treatment or disposal of oil or hazardous material; site restoration;

and any investigations, monitoring, surveys, testing and other information gathering required or conducted by the Department of Environmental Quality.

(3) "Cleanup costs" means all costs associated with the cleanup of a spill or release incurred by the state, its political subdivision or any person with written approval from the department when implementing ORS 466.205, 466.605 to 466.680, 466.990 (3) and (4) and 466.995 (2) or 468B.320.

(4) "Commission" means the Environmental Quality Commission.

(5) "Department" means the Department of Environmental Quality.

(6) "Director" means the Director of the Department of Environmental Quality.

(7) "Hazardous material" means one of the following:

(a) A material designated by the commission under ORS 466.630.

(b) Hazardous waste as defined in ORS 466.005.

(c) Radioactive waste as defined in ORS 469.300, radioactive material identified by the Energy Facility Siting Council under ORS 469.605 and radioactive substances as defined in ORS 453.005.

(d) Communicable disease agents as regulated by the Health Division under ORS chapter 431 and ORS 433.010 to 433.045 and 433.106 to 433.990.

(e) Hazardous substances designated by the United States Environmental Protection Agency under section 311 of the Federal Water Pollution Control Act, P.L. 92-500, as amended.

(8) "Oils" or "oil" includes gasoline, crude oil, fuel oil, diesel oil, lubricating oil, sludge, oil refuse and any other petroleum related product.

(9) "Person" means an individual, trust, firm, joint stock company, corporation, partnership, association, municipal corporation, political subdivision, interstate body, the state and any agency or commission thereof and the Federal Government and any agency thereof.

(10) "Reportable quantity" means one of the following:

(a) A quantity designated by the commission under ORS 466.625.

(b) The lesser of:

(A) The quantity designated for hazardous substances by the United States Environmental Protection Agency pursuant to section 311 of the Federal Water Pollution Control Act, P.L. 92-500, as amended;

(B) The quantity designated for hazardous waste under ORS 466.005 to 466.385, 466.990 (1) and (2) and 466.992;

(C) Any quantity of radioactive material, radioactive substance or radioactive waste;

(D) If spilled into waters of the state, or escape into waters of the state is likely, any quantity of oil that would produce a visible oily slick, oily solids, or coat aquatic life, habitat or property with oil, but excluding normal discharges from properly operating marine engines; or

(E) If spilled on land, any quantity of oil over one barrel.

(c) Ten pounds unless otherwise designated by the commission under ORS 466.625.

(11) "Respond" or "response" means:

(a) Actions taken to monitor, assess and evaluate a spill or release or threatened spill or release of oil or hazardous material;

(b) First aid, rescue or medical services, and fire suppression; or

(c) Containment or other actions appropriate to prevent, minimize or mitigate damage to the public health, safety, welfare or the environment which may result from a spill or release or threatened spill or release if action is not taken.

(12) "Spill or release" means the discharge, deposit, injection, dumping, spilling, emitting, releasing, leaking or placing of any oil or hazardous material into the air or into or on any land or waters of the state, as defined in ORS 468B.005, except as authorized by a permit issued under ORS chapter 454, 459, 459A, 468, 468A, 468B or 469, ORS 466.005 to 466.385, 466.990 (1) and (2) or 466.992 or federal law or while being stored or used for its intended purpose.

(13) "Threatened spill or release" means oil or hazardous material is likely to escape or be carried into the air or into or on any land or waters of the state. (1985 c.733 §1; 1987 c.735 §26; 1989 c.6 §14; 1993 c.422 §28; 1997 c.249 §162)

466.610 Department authority relating to cleanup of oil or hazardous material. Subject to policy direction by the Environmental Quality Commission, the Department of Environmental Quality may:

(1) Conduct and prepare independently or in cooperation with others, studies, investigations, research and programs pertaining to the containment, collection, removal or cleanup of oil and hazardous material.

(2) Advise, consult, participate and cooperate with other agencies of the state, political subdivisions, other states or the Federal Government, in respect to any proceedings and all matters pertaining to responses, remedial actions or cleanup of oil and hazardous

ous material and financing of cleanup costs, including radioactive waste, materials and substances otherwise subject to ORS chapters 453 and 469.

(3) Employ personnel, including specialists, consultants and hearing officers, purchase materials and supplies and enter into contracts with public and private parties necessary to carry out the provisions of ORS 466.605 to 466.680, 466.990 (3) and (4) and 466.995 (2).

(4) Conduct and supervise educational programs about oil and hazardous material, including the preparation and distribution of information regarding the containment, collection, removal or cleanup of oil and hazardous material.

(5) Provide advisory technical consultation and services to units of local government and to state agencies.

(6) Develop and conduct demonstration programs in cooperation with units of local government.

(7) Perform all other acts necessary to carry out the duties, powers and responsibilities of the department under ORS 466.605 to 466.680, 466.990 (3) and (4) and 466.995 (2). [1985 c.733 §2; 1993 c.422 §29]

466.615 Limit on commission and department authority over radioactive substances. Nothing in ORS 466.605 to 466.680, 466.990 (3) and (4) and 466.995 (2) is intended to grant the Environmental Quality Commission or the Department of Environmental Quality authority over any radioactive substance regulated by the Health Division under ORS chapter 453, or any radioactive material or waste regulated by the Office of Energy or Energy Facility Siting Council under ORS chapter 469. [1985 c.733 §3; 1993 c.422 §30]

466.620 Emergency response plan. In accordance with the applicable provisions of ORS 183.310 to 183.550, the Environmental Quality Commission shall adopt an oil and hazardous material emergency response master plan consistent with the plan adopted by the Interagency Hazard Communications Council pursuant to the provisions of ORS 453.317 (1) to (6), 453.510, 453.825 and 453.835, and after consultation with the Interagency Hazard Communications Council, the Oregon State Police, the Oregon Fire Chiefs Association and any other appropriate agency or organization. [1985 c.733 §4; 1989 c.833 §92]

466.625 Rulemaking. In accordance with applicable provisions of ORS 183.310 to 183.550, the Environmental Quality Commission may adopt rules including but not limited to:

(1) Provisions to establish that quantity of oil or hazardous material spilled or released which shall be reported under ORS 466.635. The commission may determine that one single quantity shall be the reportable quantity for any oil or hazardous material, regardless of the medium into which the oil or hazardous material is spilled or released.

(2) Establishing procedures for the issuance, modification and termination of permits, orders, collection of recoverable costs and filing of notifications.

(3) Any other provision consistent with the provisions of ORS 401.025, 466.605 to 466.680, 466.900 (3) and (4), 466.995 (2) and 468.070 that the commission considers necessary to carry out ORS 401.025, 466.605 to 466.680, 466.990 (3) and (4), 466.995 (2) and 468.070. [1985 c.733 §5; 1993 c.422 §31]

466.630 Commission designation of substance as hazardous material. (1) By rule, the Environmental Quality Commission may designate as a hazardous material any element, compound, mixture, solution or substance which when spilled or released into the air or into or on any land or waters of the state may present a substantial danger to the public health, safety, welfare or the environment.

(2) Before designating a substance as hazardous material, the commission must find that the hazardous material, because of its quantity, concentration or physical or chemical characteristics may pose a present or future hazard to human health, safety, welfare or the environment when spilled or released. [1985 c.733 §6]

466.635 Report of spill or release of reportable quantity of hazardous material. Any person owning or having control over any oil or hazardous material who has knowledge of a spill or release shall immediately notify the Office of Emergency Management of the Department of State Police as soon as that person knows the spill or release is a reportable quantity. [1985 c.733 §7]

466.640 Strict liability for spill or release; exceptions. Any person owning or having control over any oil or hazardous material spilled or released or threatening to spill or release shall be strictly liable without regard to fault for the spill or release or threatened spill or release. However, in any action to recover damages, the person shall be relieved from strict liability without regard to fault if the person can prove that the spill or release of oil or hazardous material was caused by:

(1) An act of war or sabotage or an act of God.

(2) Negligence on the part of the United States Government or the State of Oregon.

(3) An act or omission of a third party without regard to whether any such act or omission was or was not negligent. [1985 c.733 §8]

466.645 Cleanup; failure to complete cleanup. (1) Any person liable for a spill or release or threatened spill or release under ORS 466.640 shall immediately clean up the spill or release under the direction of the Department of Environmental Quality. Any person liable for a spill or release or a threatened spill or release shall immediately initiate cleanup, whether or not the department has directed the cleanup. The department may require the responsible person to undertake such investigations, monitoring, surveys, testing and other information gathering as the department considers necessary or appropriate to:

(a) Identify the existence and extent of the spill or release;

(b) Identify the source and nature of oil or hazardous material involved; and

(c) Evaluate the extent of danger to the public health, safety, welfare or the environment.

(2) If any person liable under ORS 466.640 does not immediately commence and promptly and adequately complete the cleanup, the department may clean up, or contract for the cleanup of the spill or release or the threatened spill or release.

(3) Whenever the department is authorized to act under subsection (2) of this section, the department directly or by contract may undertake such investigations, monitoring, surveys, testing and other information gathering as it may deem appropriate to identify the existence and extent of the spill or release, the source and nature of oil or hazardous material involved and the extent of danger to the public health, safety, welfare or the environment. In addition, the department directly or by contract may undertake such planning, fiscal, economic, engineering and other studies and investigations it may deem appropriate to plan and direct cleanup actions, to recover the costs thereof and legal costs and to enforce the provisions of ORS 466.605 to 466.680. [1985 c.733 §9; 1987 c.158 §89; 1991 c.650 §5]

466.650 [1985 c.733 §10; repealed by 1987 c.735 §27]

466.653 [1987 c.539 §42; repealed by 1989 c.833 §175]

466.655 [1985 c.733 §11; repealed by 1987 c.735 §27]

466.660 [1985 c.733 §12; 1987 c.158 §90; repealed by 1989 c.833 §175]

466.665 [1985 c.733 §13; 1987 c.158 §91; repealed by 1989 c.833 §175]

466.670 Oil and Hazardous Material Emergency Response and Remedial Ac-

tion Fund. (1) The Oil and Hazardous Material Emergency Response and Remedial Action Fund is established separate and distinct from the General Fund in the State Treasury. Interest earned on the fund shall be credited to the fund. Moneys received by the Department of Environmental Quality for the purpose of oil or hazardous material emergency response or remedial action shall be paid into the State Treasury and credited to the fund.

(2) The State Treasurer shall invest and reinvest moneys in the Oil and Hazardous Material Emergency Response and Remedial Action Fund in the manner provided by law.

(3) The moneys in the Oil and Hazardous Material Emergency Response and Remedial Action Fund are appropriated continuously to the Department of Environmental Quality to be used in the manner described in ORS 466.675. [1985 c.733 §14; 1989 c.833 §93; 1989 c.966 §54]

466.675 Use of moneys in Oil and Hazardous Material Emergency Response and Remedial Action Fund. Moneys in the Oil and Hazardous Material Emergency Response and Remedial Action Fund may be used by the Department of Environmental Quality for the following purposes:

(1) Funding actions and activities authorized by ORS 466.645, 466.205, 468B.320 and 468B.330.

(2) Providing for the general administration of ORS 466.605 to 466.680 including the payment of personnel costs of the department or any other state agency related to the enforcement of ORS 466.605 to 466.680. [1985 c.733 §15; 1987 c.158 §92; 1989 c.833 §94]

466.680 Responsibility for expenses of cleanup; record; damages; order; appeal.

(1) If a person required to clean up oil or hazardous material under ORS 466.645 fails or refuses to do so, the person shall be responsible for the reasonable expenses incurred by the Department of Environmental Quality in carrying out ORS 466.645.

(2) The department shall keep a record of all expenses incurred in carrying out any cleanup projects or activities authorized under ORS 466.645, including charges for services performed and the state's equipment and materials utilized.

(3) Any person who does not make a good faith effort to clean up oil or hazardous material when obligated to do so under ORS 466.645 shall be liable to the department for damages not to exceed three times the amount of all expenses incurred by the department.

(4) Based on the record compiled by the department under subsection (2) of this section, the Environmental Quality Commission

shall make a finding and enter an order against the person described in subsection (1) or (3) of this section for the amount of damages, not to exceed treble damages, and the expenses incurred by the state in carrying out the action authorized by this section. The order may be appealed in the manner provided for appeal of a contested case order under ORS 183.310 to 183.550.

(5) If the amount of state incurred expenses and damages under this section are not paid by the responsible person to the department within 15 days after receipt of notice that such expenses are due and owing, or, if an appeal is filed within 15 days after the court renders its decision if the decision affirms the order, the Attorney General, at the request of the Director of the Department of Environmental Quality, shall bring an action in the name of the State of Oregon in a court of competent jurisdiction to recover the amount specified in the notice of the director. [1985 c.733 §16]

466.685 [1985 c.733 §19; repealed by 1987 c.735 §27]

466.690 [1985 c.733 §20; repealed by 1987 c.735 §27]

466.705 [1987 c.539 §2 (enacted in lieu of 466.901); 1989 c.926 §41; 1989 c.1071 §§20,25; repealed by 1991 c.863 §11 (466.706 enacted in lieu of 466.705)]

UNDERGROUND STORAGE TANKS

(General Provisions)

466.706 Definitions for ORS 466.706 to 466.845 and 466.994. As used in ORS 466.706 to 466.845 and 466.994:

(1) "Commercial lending institution" means any financial institution or trust company, as those terms are defined in ORS 706.008, or any cooperative financial institution regulated by an agency of the Federal Government or this state.

(2) "Commission" means the Environmental Quality Commission.

(3) "Corrective action" means remedial action taken to protect the present or future public health, safety, welfare or the environment from a release of a regulated substance. "Corrective action" includes but is not limited to:

(a) The prevention, elimination, removal, abatement, control, minimization, investigation, assessment, evaluation or monitoring of a hazard or potential hazard or threat, including migration of a regulated substance; or

(b) Transportation, storage, treatment or disposal of a regulated substance or contaminated material from a site.

(4) "Decommission" means to remove from operation an underground storage tank, including temporary or permanent removal

from operation, abandonment in place or removal from the ground.

(5) "Department" means the Department of Environmental Quality.

(6) "Facility" means any one or combination of underground storage tanks and underground pipes connected to the tanks, used to contain an accumulation of motor fuel, including gasoline or diesel oil, that are located at one contiguous geographical site.

(7) "Fee" means a fixed charge or service charge.

(8) "Guarantor" means any person other than the permittee who by guaranty, insurance, letter of credit or other acceptable device, provides financial responsibility for an underground storage tank as required under ORS 466.815.

(9) "Heating oil tank" has the meaning given that term in ORS 469.228.

(10) "Investigation" means monitoring, surveying, testing or other information gathering.

(11) "Local unit of government" means a city, county, special service district, metropolitan service district created under ORS chapter 268 or a political subdivision of the state.

(12) "Oil" means gasoline, crude oil, fuel oil, diesel oil, lubricating oil, sludge, oil refuse and any other petroleum related product or fraction thereof that is liquid at a temperature of 60 degrees Fahrenheit and a pressure of 14.7 pounds per square inch absolute.

(13) "Owner" means the owner of an underground storage tank.

(14) "Permittee" means the owner or a person designated by the owner who is in control of or has responsibility for the daily operation or maintenance of an underground storage tank under a permit issued pursuant to ORS 466.760.

(15) "Person" means an individual, trust, firm, joint stock company, corporation, partnership, joint venture, consortium, association, state, municipality, commission, political subdivision of a state or any interstate body, any commercial entity or the Federal Government or any agency of the Federal Government.

(16) "Regulated substance" means:

(a) Any substance listed by the United States Environmental Protection Agency in 40 CFR Table 302.4 pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 as amended (P.L. 96-510 and P.L. 98-80), but not including any substance regulated as a hazardous

WATER POLLUTION CONTROL

(Generally)

468B.005 Definitions for water pollution control laws. As used in the laws relating to water pollution, unless the context requires otherwise:

(1) "Disposal system" means a system for disposing of wastes, either by surface or underground methods and includes municipal sewerage systems, domestic sewerage systems, treatment works, disposal wells and other systems.

(2) "Industrial waste" means any liquid, gaseous, radioactive or solid waste substance or a combination thereof resulting from any process of industry, manufacturing, trade or business, or from the development or recovery of any natural resources.

(3) "Pollution" or "water pollution" means such alteration of the physical, chemical or biological properties of any waters of the state, including change in temperature, taste, color, turbidity, silt or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive or other substance into any waters of the state, which will or tends to, either by itself or in connection with any other substance, create a public nuisance or which will or tends to render such waters harmful, detrimental or injurious to public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational or other legitimate beneficial uses or to livestock, wildlife, fish or other aquatic life or the habitat thereof.

(4) "Sewage" means the water-carried human or animal waste from residences, buildings, industrial establishments or other places, together with such ground water infiltration and surface water as may be present. The admixture with sewage of wastes or industrial wastes shall also be considered "sewage" within the meaning of ORS 448.305, 454.010 to 454.040, 454.205 to 454.255, 454.405, 454.425, 454.505 to 454.535, 454.605 to 454.745 and ORS chapters 468, 468A and 468B.

(5) "Sewerage system" means pipelines or conduits, pumping stations, and force mains, and all other structures, devices, appurtenances and facilities used for collecting or conducting wastes to an ultimate point for treatment or disposal.

(6) "Treatment works" means any plant or other works used for the purpose of treating, stabilizing or holding wastes.

(7) "Wastes" means sewage, industrial wastes, and all other liquid, gaseous, solid, radioactive or other substances which will or may cause pollution or tend to cause pollution of any waters of the state.

(8) "Water" or "the waters of the state" include lakes, bays, ponds, impounding reservoirs, springs, wells, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Pacific Ocean within the territorial limits of the State of Oregon and all other bodies of surface or underground waters, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters which do not combine or effect a junction with natural surface or underground waters), which are wholly or partially within or bordering the state or within its jurisdiction. [Formerly 449.075 and then 468.700]

468B.010 Authority of commission over water pollution; construction. (1) Except as otherwise provided in ORS 469.300 to 469.570, 469.590 to 469.619 and 469.930, in so far as the authority of the commission over water pollution granted by ORS 448.305, 454.010 to 454.040, 454.205 to 454.225, 454.405, 454.425, 454.505 to 454.535, 454.605 to 454.745 and ORS chapters 468, 468A and 468B is inconsistent with any other law, or authority granted to any other state agency, the authority of the commission shall be controlling.

(2) The water pollution control laws of this state shall be liberally construed for the accomplishment of the purposes set forth in ORS 468B.015. [Formerly 449.070 and then 468.705]

468B.015 Policy. Whereas pollution of the waters of the state constitutes a menace to public health and welfare, creates public nuisances, is harmful to wildlife, fish and aquatic life and impairs domestic, agricultural, industrial, recreational and other legitimate beneficial uses of water, and whereas the problem of water pollution in this state is closely related to the problem of water pollution in adjoining states, it is hereby declared to be the public policy of the state:

(1) To conserve the waters of the state;

(2) To protect, maintain and improve the quality of the waters of the state for public water supplies, for the propagation of wildlife, fish and aquatic life and for domestic, agricultural, industrial, municipal, recreational and other legitimate beneficial uses;

(3) To provide that no waste be discharged into any waters of this state without first receiving the necessary treatment or other corrective action to protect the legitimate beneficial uses of such waters;

(4) To provide for the prevention, abatement and control of new or existing water pollution; and

(5) To cooperate with other agencies of the state, agencies of other states and the Federal Government in carrying out these objectives. [Formerly 449.077 and then 468.710]

468B.020 Prevention of pollution. (1) Pollution of any of the waters of the state is declared to be not a reasonable or natural use of such waters and to be contrary to the public policy of the State of Oregon, as set forth in ORS 468B.015.

(2) In order to carry out the public policy set forth in ORS 468B.015, the department shall take such action as is necessary for the prevention of new pollution and the abatement of existing pollution by:

(a) Fostering and encouraging the cooperation of the people, industry, cities and counties, in order to prevent, control and reduce pollution of the waters of the state; and

(b) Requiring the use of all available and reasonable methods necessary to achieve the purposes of ORS 468B.015 and to conform to the standards of water quality and purity established under ORS 468B.048. [Formerly 449.095 and then 468.715]

468B.025 Prohibited activities. (1) Except as provided in ORS 468B.050, no person shall:

(a) Cause pollution of any waters of the state or place or cause to be placed any wastes in a location where such wastes are likely to escape or be carried into the waters of the state by any means.

(b) Discharge any wastes into the waters of the state if the discharge reduces the quality of such waters below the water quality standards established by rule for such waters by the commission.

(2) No person shall violate the conditions of any waste discharge permit issued under ORS 468B.050.

(3) Violation of subsection (1) or (2) of this section is a public nuisance. [Formerly 449.079 and then 468.720]

468B.030 Effluent limitations. In relation to the waters of the state, the commission by rule may establish effluent limitations, as defined in Section 502 of the Federal Water Pollution Control Act, as amended by Public Law 92-500, October 18, 1972, and other minimum requirements for disposal of wastes, minimum requirements for operation and maintenance of disposal systems, and all other matters pertaining to standards of quality for the waters of the state. The commission may perform or cause to be performed any and all acts necessary to be performed by the state to implement within the jurisdiction of the state the provisions of the Federal Water Pollution Control Act of October 18, 1972, and Acts amendatory thereof or supplementary thereto, and federal regulations and guidelines issued pursuant thereto. [Formerly 449.081 and then 468.725]

468B.035 Implementation of Federal Water Pollution Control Act. The commission may perform or cause to be performed any and all acts necessary to be performed by the state to implement within the jurisdiction of the state the provisions of the Federal Water Pollution Control Act, enacted by Congress, October 18, 1972, and Acts amendatory thereof or supplementary thereto, and federal regulations and guidelines issued pursuant thereto. The commission may adopt, modify or repeal rules, pursuant to ORS 183.310 to 183.550, for the administration and implementation of this section. [Formerly 468.730]

(Surface Water)

468B.040 Certification of hydroelectric power project; comments of affected state agencies. The Director of the Department of Environmental Quality shall approve or deny certification of any federally licensed or permitted activity related to hydroelectric power development, under section 401 of the Federal Water Pollution Control Act, P.L. 92-500, as amended. In making a decision as to whether to approve or deny such certification, the director shall:

(1) Solicit and consider the comments of all affected state agencies relative to adverse impacts on water quality caused by the project, according to sections 301, 302, 303, 306 and 307 of the Federal Water Pollution Control Act, P.L. 92-500, as amended.

(2) Approve or deny a certification only after making findings that the approval or denial is consistent with:

(a) Rules adopted by the Environmental Quality Commission on water quality;

(b) Provisions of sections 301, 302, 303, 306 and 307 of the Federal Water Pollution Control Act, P.L. 92-500, as amended;

(c) Standards established in ORS 543.017 and rules adopted by the Water Resources Commission implementing such standards; and

(d) Standards of other state and local agencies that are consistent with the standards of ORS 543.017 and that the director determines are other appropriate requirements of state law according to section 401 of the Federal Water Pollution Control Act, P.L. 92-500, as amended. [Formerly 468.732; 1993 c.544 §1]

468B.045 Certification of change to hydroelectric power project; notification of federal agency. Within 60 days after the Department of Environmental Quality receives notice that any federal agency is considering a permit or license application related to a change to a hydroelectric project or proposed hydroelectric project that was

U.S. Department
of Transportation

United States
Coast Guard



NOTICE OF FEDERAL INTEREST FOR
AN OIL POLLUTION INCIDENT

COMMANDING OFFICER

WILBRIDGE GROUP (ANITA K. ROGERS)
~~CARE OF MARTIN A. CRAMER (TOSCO)~~
5528 NW DOANE AVE.
PORTLAND, OR 97210

PORT OPERATIONS
USCG MARINE SAFETY OFFICE
6767 N. BASIN AVENUE
PORTLAND, OR 97217-3992
(503) 240-9379
20 APR 98

Gentlemen:

On or about 27 MAR 98, an oil pollution incident occurred or threatens to occur at TOSCO FACILITIES, OUTFALL 22. You may be financially responsible for that incident. Under Federal Statutes, the United States Government may take action to minimize or mitigate damage to the public health or welfare that is threatened or that may be caused by this incident.

Under the Oil Pollution Act of 1990, the responsible party is liable for, among other things, removal costs and damages resulting from this incident. The failure or refusal of the responsible party to provide all reasonable cooperation and assistance requested by the Federal On-Scene Coordinator (OSC) will eliminate any defense or entitlement to limited liability which otherwise might be available under the Act.

You are advised that your failure to properly carry out the removal of the discharge as ordered by the OSC or to comply with any administrative orders necessary to protect the public health and welfare, may subject you to additional penalties. For such failure, owners, operators, or persons in charge of the vessel or facility from which the oil is discharged are subject under the Federal Water Pollution Control Act (FWPCA), as amended, to a civil penalty of up to \$25,000 per day of violation or up to 3 times the costs incurred by the Oil Spill Liability Trust Fund. Should you require further information concerning this matter, please contact BM³ CRAIG VERMEULEN at the above address and telephone number.

As long as the OSC determines that you are taking adequate actions in this matter, Federal removal action will usually be limited to monitoring the progress of your actions and providing guidance as necessary. Under the FWPCA, as amended, your response actions may be taken into account in determining the amount of any penalty assessed as a result of the discharge.

Sincerely,

BM³ Craig Vermeulen

Received and Acknowledged:

Witness(es):

Anita K. Rogers, Bnl Mgr. Tosco Terminals
MST2 John D. Murphy F.M.J. 20 APR 98

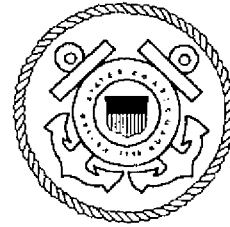
LETTER OF WARNING



United States Coast Guard

MARINE SAFETY OFFICE
RESPONSE BRANCH
(503)240-9379

6767 N. BASIN AVENUE
PORTLAND, OREGON
97217



On or about 02 APR 92, U. S. Coast Guard Marine Safety Office Portland, Oregon investigated a pollution incident involving your vessel/facility at 7000 NE 10th Ave, Portland, OR. It has been determined that you are responsible for this incident, associated removal costs and any damages resulting from your discharge of oil.

A discharge of oil into a navigable waterway of the United States is a violation of Section 311 of the Clean Water Act. A violation of the Act can result in a civil penalty of up to \$25,000 for each violation.

Under the Oil Spill Liability Act of 1990, the responsible party is liable for, among other things, removal costs and damages resulting from this incident. As long as the OSC determines that you are taking adequate actions in this matter, Federal removal action will usually be limited to monitoring the progress of your actions and providing guidance as necessary.

In consideration of this incident and the absence of recent similar violations, I am issuing this Letter of Warning in lieu of initiating an administrative penalty action. I currently do not intend to pursue this matter further. However, this incident may be considered or processed as a violation, if further information is uncovered. I urge your cooperation in preventing repetition of such violations.

A record of this incident will be maintained by the Coast Guard and this violation may be considered in the event future violations occur.

RESPONSIBLE PARTY

Name: Mr. J. D. BAKER
Address: 6767 N. BASIN AVE
PORTLAND, OREGON 97217
503-240-9379
Phone #: (503) 240-9379

Vsl/Fac Name: 10500 SOUTHERN PACIFIC
VIN/FIN: _____
Other Source Info: _____
RP violation history _____

DISCHARGE INFORMATION

A violation of 33 USC 1321(b)(3) has been determined in that, there was a discharge of an oil or designated hazardous substance, in a harmful quantity, into a navigable waterway or adjoining shoreline of the United States, from your vessel, onshore or offshore facility, and you are the responsible party.

Incident Description: Oil was discharged from the vessel at 7000 NE 10th Ave, Portland, OR
on 02 APR 92.

Issued by: [Signature] Date/Time: 02 APR 92 11:00
Received by: [Signature] Date/Time: 02 APR 92 11:00
Pollution Investigator: [Signature]

COP0019101



PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN  COMPANY

June 10, 1998
Project 1115-099.7B

Ms. Jill Kiernan, P.E.
Senior Project Engineer, Northwest Region
Oregon Department of Environmental Quality
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97201-4987

STATUS OF TRANSDUCER STUDY

Re: Response to DEQ Comments
Remedial Investigation Work Plan
Willbridge Bulk Fuel Facilities
WMCSR-NWR-94-06

Dear Ms. Kiernan:

Pacific Environmental Group, Inc. (PEG), on behalf of the Willbridge responsible parties (RPs) (Chevron Products Company, Shell Oil Company, GATX Terminals Corporation, and Tosco Distribution Company) is pleased to submit these revised responses to your comments regarding the Remedial Investigation (RI) Work Plan for the Willbridge Bulk Fuel Facilities (the "site") dated February 18, 1998. The revision of this response document is based upon the meeting held between the RPs and the Oregon Department of Environmental Quality (DEQ) on April 8, 1998, and guidance documents issued by the DEQ subsequent to the initial draft of the RI Work Plan. PEG has prepared this document in an effort to solicit written responses from the DEQ prior to redrafting and reissuing the RI Work Plan.

General Comments

1. a) Accepted as stated. Utility corridors will be identified and used to evaluate potential preferential off-site migration pathways. A map will be prepared showing locations and elevation profiles of all underground utilities that could extend the "locality of the facility". Using this information, utilities which act as preferential migration pathways will be investigated as discussed below in the response to Comment (2).
- b) Based upon the past practices interviews which were conducted at each facility, 1,2-dibromoethane and 1,2-dichloroethane are not and have not been stored at any of the facilities. For a further discussion of the past practices interviews, please see Response 18.

c) Accepted as stated. PEG, as part of the RI investigation, will collect additional data from the two areas referenced in Comment 1C to evaluate the presence or absence of separate-phase hydrocarbons (SPH). This information will be gathered by installing a total of 12 geoprobes in these areas for the collection of soil and groundwater samples. In the area south of the Tosco facility, geoprobe locations will be completed as wells only if the results of the laboratory analyses indicates that a contaminant plume may be originating and migrating from the Burlington Northern Santa Fe Railroad property. In this way, we could monitor the progression of such a plume. If the geoprobes samples do not indicate that a plume exists in this area of the facility, wells will not be installed.

In the area north and east of the GATX facility, geoprobes locations will be converted to wells only if the laboratory results from the geoprobe samples indicated a change in the preliminary locality of the facility. Currently, there are several wells along the property boundaries of the GATX facility and the GS Roofing facility. Additional wells between these two facilities (Front Avenue) seem unnecessary unless the laboratory results indicate that the boundary of the locality of the facility is actually Front Avenue or that the locality of the Willbridge Facility is actually larger than anticipated due to cross-gradient migration in the utility trenches within Front Avenue.

d) Accepted as stated. PEG has completed a past practices interview for each of the facilities to determine the operating protocols for piping and tank inspections and integrity testing. The RI Work Plan will be modified to include an appropriate discussion on these testing practices.

2. Potential preferential pathways (as named in the Consent Order or as determined by investigation) will be investigated as part of the RI. The abandoned 27-inch storm sewer and the Holbrook Slough are currently considered preferential pathways. A section will be added to Section 5.0 (Site Characterization) of the RI Work Plan addressing how individual identified potential preferential pathways will be investigated. In general, a geoprobe will be installed in each identified potential preferential pathway that intersects the watertable and trends cross gradient possibly extending the locality of the facility. Two geoprobes will be installed in each potential preferential pathway that trends in the direction of the groundwater gradient and intersects the watertable. Soil and groundwater samples will be collected from each geoprobe location to evaluate whether or not these potential preferential pathways are actually acting as contaminant migration pathways. As discussed in Response 1b, monitoring wells will not be installed within these potential preferential pathways unless laboratory results indicate a sampling location is beneficial for the definition of the locality of the facility. In addition, the Holbrook Slough pathway will be further evaluated by conducting a transducer study and pumping test, described below.

Holbrook Slough Investigation

Investigation of the riverfront from the Holbrook Slough area to the 60-inch storm sewer will be accomplished with a transducer study and pump test. This area of the Willbridge Facility also encompasses the historical 27-inch storm sewer. The

approximate location of the Holbrook Slough has been investigated through review of historical maps for this area and with a geophysical survey in 1997 to map the lateral and vertical extent of the slough. Based upon this information, a program has been devised and implemented in the beginning of May 1998 to determine; 1) the hydraulic effect on the slough from fluctuating river stage; 2) the hydraulic conductivity of the slough and surrounding area; 3) the storm sewer pathways and; 4) any unknown preferential pathways in this area. This information will eventually be used for "fate and transport" modeling associated with risk assessment.

The transducer study is being conducted with two separate 12 channel receivers; one on the Chevron Dock Area and one for the Tosco Dock Area. Transducers will be placed in the key wells listed below in these two areas with one transducer used to measure river stage. The selected wells are hydrogeologically cross gradient (to the north) of the Holbrook Slough and cross gradient to the 60-inch storm sewer (Well B-25) with significant coverage between these two areas from the river's edge to Front Avenue. The transducers will be operated for a period of at least 45 days. The time of the study is expected to coincide with the spring melt in the Willamette River which typically generates changes in river stage of at least 7 feet. The transducer receivers are connected by telephone line and modem, and will be monitored on a daily basis.

Wells at the Chevron Dock Area; B-6, B-8, B-9, B-10, B-11, B-12, B-20, B-21, B-33, B-35 and the river. Wells at the Tosco Dock Area: U-5, B-3, B-17, B-18, B-25, B-37, B-41, DW-1 (upgradient of 60 inch barrier), and new 1-inch piezometer on the river bank at Ordinary High Water Line (OHWL). Spare stations are maintained for the pump tests described below.

A constant discharge pump test will be conducted in each location to accurately assess the hydraulic conductivity across the entire area. Several weeks prior to conducting the test, the two designated extraction wells will be developed by pumping. Each well will be pumped for a total of two to three hours. Well EX-1, a ten-inch diameter PVC cased well approximately 30 feet below ground surface with 20 feet of well screen, will be used for the pump test on the Chevron property. This well is located approximately 20 feet due west of Well B-33. A new extraction well was installed on the Tosco property by overdrilling existing monitoring Well B-39 and installing a new 6-inch diameter PVC casing with 20 feet of screen. This well was constructed with a 1-inch piezometer adjacent to the main screen. These two wells will have transducers installed during the constant discharge test estimated to last from 8 to 24 hours.

In addition to the transducer study and pump test, geoprobes will be installed on approximate 100 centers across this area at the OHWL to assess potential impact to the river from any contaminants migrating from the Holbrook Slough area. Directly across from these geoprobe locations will be the location for collecting river sediments. It is believed the investigation program proposed above will fully characterize the Holbrook Slough area.

3. PEG has reviewed available data concerning the spills and adjacent facilities that were listed in DEQ comment number 3. PEG will revise the text of Section 5.0 Site Characterization to include additional sampling points to evaluate the DEQ's concerns regarding these spill areas and adjacent properties.

a) GS Roofing: As presented in the letter to the DEQ prepared by PEG on April 6, 1998, we believe the dissolved hydrocarbons that have been detected in GS Roofing (Well MW-1) originate on the GS Roofing facility. To further substantiate this interpretation, PEG is proposing to install 4 geoprobes in the Front Avenue public easement between the GATX facility and GS Roofing (See attached Figure 5-2). Soil and groundwater samples will be collected from these probe locations to evaluate the subsurface conditions beneath Front Avenue. In addition, these sampling locations will also be utilized to evaluate the locality of the site and to provide data for the evaluation of health risks to trench workers.

b) McCall Oil/ Great Western Chemicals: After review of the DEQ file on the McCall Oil facility, we agree to modify the RI Work Plan to include additional off-site sampling in Front Avenue between Tosco and McCall Oil. PEG will install 4 geoprobes in Front Avenue as shown on Figure 5-2 for the collection of soil and groundwater samples. The purpose of these additional sampling points will be to evaluate the possibility of dissolved hydrocarbons and SPH in groundwater migrating onto the McCall Oil property. Currently, McCall Oil has a well (MW-2/ EX-4) which they believe is upgradient from historic releases on their property. The locations of the probes are designed to evaluate whether or not an off-site source is responsible for the dissolved hydrocarbons that have been detected in Well MW-2/ EX-4. Furthermore, the samples collected from these probe locations will provide data to aid in the definition of the locality of the site and the health risk evaluation for the trench worker scenario.

c) Chevron UST Decommissioning (UST # 26-94-072) On April 23, 1994, Chevron decommissioned a 6,000 gallon UST that was formerly used to store petroleum hydrocarbons recovered during drum cleaning activities. Two soil samples were collected from the base of the excavation. In addition, one water sample was collected from the water in the excavation. The soil samples were analyzed for total petroleum hydrocarbons (TPH) identification by Oregon Method TPH-HCID, TPH as gasoline by Oregon Method TPH-G, and TPH by Oregon Method TPH-418.1. In each sample, gasoline, diesel, and oil were identified by the analyses. The sample results for the TPH-418.1 analyses were 17,000 mg/kg and 14,000 mg/kg. The sample results for the TPH-G analyses were 1,100 mg/kg and 250 mg/kg. The water sample was analyzed for TPH by USEPA Method 418.1 and benzene, toluene, ethyl benzene, and xylenes (BTEX) by USEPA Method 8020. TPH was detected at a concentration of 630 mg/L. BTEX constituents were detected at concentrations ranging from 420 ug/L (benzene) to 7,900 ug/L (xylenes). Evaluation of risks to humans and the environment will be evaluated during the RI activities. As shown on Figure 5-2, PEG has proposed the sampling of the subsurface soil and groundwater utilizing a geoprobe which will be installed near the former location of this UST.

d) Unocal UST Decommissioning (UST #26-94-6015) At the time of this letter, complete information was not available. It will be forwarded to DEQ prior to completing the actual RI Work Plan.

e) Unocal UST Decommissioning (UST #26-97-0577) This DEQ file includes a report on the decommissioning of 5 USTs in August 1997. Three of the USTs were excavated and removed from the ground. The remaining two USTs were decommissioned in place by filling with an inert substance.

The three USTs that were excavated and removed included one 550-gallon diesel UST, one 550-gallon gasoline UST, and one 1,000-gallon UST. The two 550-gallon tanks were located in the same tank pit laying end to end. Three soil samples were collected from this tank pit, one soil sample from each end and one soil sample from between the tanks. Each of the three soil samples contained detectable levels of petroleum hydrocarbons. Sample 1, collected from the end of the tank where the gasoline fill pipe was located, contained only gasoline range hydrocarbons at a concentration of 4,130 mg/kg. Sample 2 was collected from between the two tanks and contained a gasoline concentration of 2,520 mg/kg and TPH by method TPH-418.1 of 10,600 mg/kg. Sample 3 also had detectable levels of gasoline range hydrocarbons and diesel and oil range hydrocarbons. The gasoline concentration was 655 mg/kg and the hydrocarbons detected by method TPH-418.1 were at a concentration of 3,730 mg/kg. The 1,000 gallon UST that was excavated and removed was located in a separate tank pit. Soil samples were collected from below each end of this tank. Both samples were analyzed by Oregon Method TPH-HCID for hydrocarbon identification. Neither sample had detectable levels by this method.

The two tanks that were abandoned in place were a 500-gallon diesel additive UST and a 600-gallon used oil UST. Soil samples were collected from beneath these tanks by drilling holes in the bottom of each tank and boring 12 to 24 inches below the USTs. Each of the four soil samples collected had detectable levels of petroleum hydrocarbons by Oregon Method TPH-HCID. Detectable gasoline concentrations ranged from 48 mg/kg to 2,500 mg/kg. TPH detected by Oregon Method TPH-418.1 was detected at concentrations ranging from 1,080 mg/kg to 16,300 mg/kg. Two samples were analyzed for cadmium, chromium, and lead using toxic characteristic leaching procedure (TCLP). The only metal detected was cadmium, it was detected in each sample. In addition, one sample was analyzed for volatile organic compounds (VOCs) by USEPA Method 8240. The only compounds detected were ethylbenzene (72 ppb), styrene (25,755 ppb), and total xylenes (127 ppb).

PEG believes that the proposed surface and subsurface sampling for the RI in conjunction with the surrogate hot spot evaluation proposed in the RI Work Plan will adequately address the evaluation of risks associated with the petroleum hydrocarbons detected in the subsurface during the decommissioning of these five USTs.

f) GATX Spill (OERS #26-2921): The RI Work Plan does address this spill area. This spill location is one of the two areas proposed for a surrogate hot spot evaluation. See Response (41).

g) Unocal Spill (OERS #97-0545): The RI Work Plan does address this spill area. This spill location is one of the two areas proposed for a surrogate hot spot evaluation. See Response (41).

h) Unocal Spill (OERS #95-261): A description of this spill will be included in the RI Work Plan. As presented in the attachment enclosed with the DEQ comments, this spill occurred on 11/3/95. The spilled material was a highly viscous oil additive, therefore; the release mainly affected surface soils. Approximately 2,000 gallons of an oil/water mixture were recovered and approximately 140 drums of soil were excavated. The confirmation samples indicated that the residual hydrocarbons in the soil were below UST cleanup levels. The DEQ Spill Program determined that no further actions were required. However, the spill was referred to the DEQ Site Response Program so that the spill area could be included in the facilities RI/FS to evaluate whether or not groundwater quality had been adversely affected by the released hydrocarbons.

Specific Comments

4. PEG and the RPs would like to disregard this suggestion. We feel that the original organization of Section 2 of the RI Work Plan is appropriate.
5. The comment is noted.
6. Accepted as stated.
7. Accepted as stated.
8. Accepted as stated.
9. Accepted as stated. See Response (3c).
10. Conditionally accepted. Much of the information for past releases and waste disposal is anecdotal, and therefore, locations and release volumes may or may not be accurate. PEG does not want to assign specific locations on a map to anecdotal releases with location descriptions such as "North Yard". If the site description investigation can provide definitive release locations, then a location will be assigned on the map. Otherwise, the release will not be placed on the figure, but presented in the associated tables only.
11. Accepted as stated.
12. Conditionally accepted as stated. See response (10).
13. Accepted as stated. In addition, please see response (41).
14. Conditionally accepted as stated. See response (10).

15. Accepted as stated. The revised Conceptual Site Model is presented as Attachment A.
16. Accepted. Constituents that are being evaluated will be designated as COIs. Following screening, constituents will then be designated as either contaminants of potential human concern (CPHC) or of ecological concern (CPEC). Constituents which do not meet acceptable risk standards would then be designated as either Contaminants of Human Concern (COHCs) or Contaminants of Ecological Concern (COECs).
17. Comment noted.
18. Upon completion of the past practices interviews, PEG believes the proposed analytical list is appropriate for the RI. It was determined in the past practices interviews that the only solvents used or stored on each of the facilities consisted of either Stoddard solvents or kerosene. No solvents containing TCE or TCA were stored or used on-site in appreciable quantities. Therefore, PEG does not have an identified area of concern regarding chlorinated VOCs (i.e. storage tanks, piping, or maintenance shop).

Furthermore, PEG has reviewed the DEQ file on McCall Oil, one of the adjacent properties. PEG is aware that McCall Oil is taking a stance that the chlorinated VOCs detected in the groundwater beneath their site is coming from an off-site source. However, comparing their 1995 quarterly sampling data with the potentiometric surface maps prepared for 1995, it can be interpreted that McCall Oil has an uncontaminated upgradient well (EX-7) between potential off-site sources and their contaminated well (EX-1). PEG hopes that the DEQ is not going to require chlorinated VOC sampling at the Willbridge Facility based on the McCall Oil data.

However, the Willbridge RP's will provide chlorinated VOC data from one sampling round in 1998. We propose analyzing groundwater samples from six monitoring wells during a quarterly monitoring event during 1998 for chlorinated VOCs by USEPA Method 8240. We have chosen wells that will determine whether or not chlorinated VOCs exist in the Holbrook Slough. These wells are MW-26, MW-37, B-6, B-11, B-14, and B-17. If the analyses detect chlorinated VOCs, we will augment the RI activities to include an evaluation of the source of the detected chlorinated VOCs. However, we do not believe that chlorinated VOCs exist in the subsurface at the site.
19. Separate-phase hydrocarbons will be addressed as a specific concern for the RI, but not as a particular COI.
20. Accepted as stated.
21. Accepted as stated.
22. The RI Work Plan will be expanded to include the results of a well survey, as required by Section (IV)(C)(2)(d) of Attachment B "*Remedial Investigation/Feasibility Study Scope of Work*" to the Consent Order. The additional requested information will

be collected as part of the RI and presented as part of the RI report per the DEQ guidance document referenced below.

23. Accepted as stated. The February 20, 1998 "*Draft Guidance for Conducting Beneficial Water Use Determinations at Environmental Cleanup Sites*" will be reviewed and incorporated as appropriate. The requested information will be collected as part of the RI and presented as part of the RI report.

24. Comment is noted. Both of the sites indicated by DEQ are former sites. The terminals that compose the site are operating facilities which are extremely unlikely to be used for any purpose other than their current use any time in the foreseeable future. The capital costs associated with construction of a new bulk fuel terminal, coupled with the requirements for permitting a new terminal, makes these properties extremely valuable in a large metropolitan area such as Portland. In addition, See Response (25).

25. This comment will be addressed in the RI report. Determination of land use at the site will follow the DEQ draft "Guidance for Consideration of Land Use", dated January 15, 1998.

26. See response (25).

27. See response (23).

28. See response (23).

29. See response (23).

30. Accepted as stated.

31. Accepted as stated.

32. a) Accepted as stated.

b) A trespasser exposure scenario will be evaluated, but only on those portions of the locality that are not restricted by existing institutional controls. Data collected from these areas during the RI will be used to estimate this risk. Based on DEQ comment (36), the locality of the facility with respect to surface water and sediment is limited to 50 feet from OHWL, excepting in the area of Saltzman Creek and the 60-inch Doane Avenue storm sewer outfall where the locality is extended to 100 feet from OHWL. That a recreational river user could utilize the surface water locality of the facility is highly unlikely. The three working docks, anchored fuel barges, floating booms, and slips for tankers discharging/filling at the facilities do not present an "attractive" area for recreational river users. However, the revised conceptual site model does include recreational river users as a potential receptor.

c) Accepted as stated.

d) Accepted as stated.

e) Accepted as stated. See response (1a).

33. The only previous data that PEG is using in the RI and risk assessment is groundwater analytical data collected during the quarterly monitoring and sampling events. The October 1997 sampling event was specifically sampled for use in the RI. The samples were collected and analyzed following the Quality Assurance Plan for the site. The draft version of the RI Work Plan indicated that previously collected soil data from the GATX facility would be used in the RI. Response Comment 44 addresses the concern regarding this data.

34, 35, 36, & 37. Accepted as stated. Section 4.2 has been revised and is presented below:

4.2 Identification of Data Uses And Needs

This first stage of the DQO process involves four steps 1) the identification and involvement of data users; 2) the evaluation of available data; 3) the development of a conceptual site model; and 4) the specification of project objectives and decisions.

The primary data users are the decision makers (DEQ and PRPs) and those preparing the RI/FS such as the risk assessors, chemists and engineers. The available data have been reviewed and are presented in Appendix D. The site conceptual model identifies the following components:

- Site workers may be exposed to COIs through inhalation of fugitive dust, incidental ingestion of surface soils, or dermal contact with surface soils. In addition, there is a potential pathway for exposure that needs further evaluation. Site workers may come into contact with the sediments and surface water of the Willamette River during routine maintenance around the dock area. Currently it is unknown if the COIs found on the site have adversely affected the Willamette River and thus may pose a risk to site workers.*
- Trench workers may be exposed to COIs through dermal contact or incidental ingestion of subsurface soils, or incidental dermal contact and ingestion of groundwater.*
- Trespassers may be exposed to COIs through dermal contact or incidental ingestion of surface soils. Moreover, trespassers may be exposed to COIs if they come into contact with sediment or surface water of the Willamette River or fugitive dust from the site. Currently, it is unknown whether or not the sediments or surface water of the Willamette River has been adversely affected by the COIs from the facility. In addition, COIs exposure from fugitive dust has not been proven or disproved either. During the RI, these potential exposure pathways will be evaluated to determine whether or not they function as actually exposure pathways.*
- Recreational River Users may be exposed to COIs if they come into contact with sediments or surface water of the Willamette River or*

fugitive dust from the site. As stated earlier, these potential exposure pathways have not been proven or disproved. Data will be collected during the RI to evaluate these potential exposure pathways.

- *The only potential exposure pathway for residents in the area is from fugitive dust. As discussed earlier, currently this is not a confirmed pathway for exposure but only a potential exposure pathway. During the RI, data will be collected to evaluate whether or not this pathway exists.*
- *The primary exposure route for aquatic organisms inhabiting the Willamette River in the site vicinity is through dermal contact or by uptake of COIs over the water/gill interface.*
- *Exposure pathways for terrestrial species have not been determined at this time. The RI activities will provide an evaluation of which species inhabit the site and the exposure pathways for these species.*
- *Constituents of interest are transported mainly through infiltration/percolation, erosion, surface runoff, and dust resuspension.*
- *When rainfall or surface runoff contacts the soils, COIs could be leached into groundwater or migrate downgradient into the river. In addition, rainfall and surface runoff can result in erosion which could transport soils affected with COIs into the river.*
- *Within surface water, COIs may bioaccumulate in the aquatic biota (e.g., resident fish population) or deposit into sediments that will eventually become suspended during turbulent conditions.*
- *Sediments tend to integrate COIs over long periods, while levels of COIs in the water column are less concentrated and more variable.*
- *As described in Table 4-1, the following list presents the project objectives:*
- *Assess the extent of COIs in the site surface soils, surface water, and river sediments;*
- *Identify contaminant pathways and receptors;*
- *Determine the locality of the site;*
- *Identify "hot spots" per OAR 340-122-080(7); and*
- *Determine if the site poses an unacceptable risk to human health and the environment.*

38. Accepted as stated, excepting to inclusion of additional analytes as discussed in response (39). The following text will be added to the list of data gaps in Section 4.3:

- Incomplete characterization of surface soils at the GATX facility.
- Undefined extent of off-site migration of hydrocarbon-impacted groundwater.
- Inadequate assessment of the potential impacts to terrestrial organisms.
- Insufficient detailed ecological information regarding the terrestrial and aquatic components of the site and adjacent river.

39. See Response 18.

e). Conditionally accepted, the six closest sediment sampling locations to the GATX facility will be analyzed for organochlorine pesticides. This information will be used in conjunction with the Environmental Protection Agency (EPA) sediment sampling results expected to be released during the Summer of 1998.

40. Accepted as stated. The following is the proposed text developed for New Section 4.4:

4.4 Design of Data Collection Program

The data collection program was designed to obtain information to fully characterized the site as required by OAR 340-122-080. The location, type of sample, and laboratory analyses were chosen to augment the existing data for the site in order to fill in the "data gaps" listed in Section 4.3. Section 5.0 presents the details of the RI data collection program.

41. PEG has proposed in the April 8, 1998, meeting with DEQ to perform surrogate hot spot analyses on two locations in the facility. These locations correspond with the two most recent spills at the site, Tosco spill (OERS #97-0545) and GATX spill (OERS #26-2921). The theory is that if these two most recent spill locations do not meet the criteria for definition as a hot spot, then neither would any of the older fugitive release areas. Soil and groundwater samples will be collected from at least four locations in each of the spill areas. Soil samples will be collected from the vadose zone and near the watertable interface. These samples will be analyzed for the COPCs associated with the released substance. PEG will follow the DEQ draft "Guidance for Identification of Hot Spots" dated December 1, 1997 to determine whether either of these spill areas constitute a hot spot.

42. At this time, metals are the only known naturally occurring COI at this time. The samples collected for determining the background concentration of metals will be collected from the upgradient geoprobe locations shown on Figure 5-2. PEG will follow the procedures for determining background concentrations presented in the DEQ guidance document titled "Soil Cleanup Manual".

43. The total number of surface soil samples proposed for the RI work is 53 as shown on Figure 5-2. These sample locations are based upon a 300 foot by 300 foot

grid spacing with minor field adjustments for tanks and other above ground structures. The rationale for the 300 foot grid was based upon achieving an good statistical average surface soil chemical concentration for human health and ecological health risk given the total surface area of the combined facilities. This information will be used in conjunction with subsurface samples obtained with geoprobes. Surface samples will be collected from 0 to 6 inches below ground surface.

44. Upon further review of the previous data for the GATX facility, it was determined that the data could not be validated. Therefore, we agree to expand the RI soil sampling program to include the GATX portion of the Willbridge facility.
45. The surface soil samples will be collected on a 300 foot grid. If an existing structure prevents collection of a soil sample at a location, an alternate nearby sample location will be chosen to replace this sample.
46. Comments (a) through (f) accepted as stated. Figure 5-2 has been revised to correspond with the text of the RI Work Plan.
47. See responses (18 & 39).
48. See response (44).
49. Accepted as stated. This information will be provided as part of the RI report.
50. Accepted as stated. A detailed sampling rationale will be provided as part Section 5.2.1.
51. See responses (18 & 39).
52. See response (3b).
53. Potentiometric data from Chevron Asphalt will be submitted to define groundwater flow directions and thus the locality of the facility in the portion of the site. Water quality information will be presented from Chevron Asphalt Wells A-1, W-6, A-5, W-10 and W-15 (as indicated in Section 5.3.2.1 of the work plan) to further delineate the locality of the facility. In addition, see response (3b).
54. See responses (18 & 39).
55. Accepted as stated. A mixing zone will be calculated using EPA SEAM methods.
56. Accepted as stated.
57. See response (39).
58. Accepted as stated.
59. Accepted as stated.
60. Accepted as stated.
61. Accepted as stated.

62. See response (16).
63. Comparisons will be made to the industrial screening levels. Use of Region 3 tables is preferable to the Region 9 tables because the Region 9 table has not been updated since July 1996, while the Region 3 table is current as of October 1997.
64. See response to (31).
65. See response to (36).
66. Comment noted.
67. Accepted as stated.
68. Accepted as stated.
69. Alternate RfDs will be used.
70. Qualitative.
71. The BW and AT is a typographical error. The term "average" refers to the exposure scenario as a whole, not the individual exposure parameter.
72. A default average AF of $0.2\text{mg}/\text{cm}^2$ will be used. The ABS values will be will be obtained from the referenced document, the EPA Dermal Exposure Assessment.
73. The BW and AT is a typographical error. The term "average" refers to the exposure scenario as a whole, not the individual exposure parameter. The H in the PEF is a typographical error. A less conservative value for the average scenario inhalation rate will be used.
74. The BW and AT is a typographical error. The trench worker is intended to be a short term, high-contact rate scenario. There are no default values for this scenario; values as high as are proposed (30-60 days down the hole) are more than conservative; the exposure duration provided by DEQ seems implausibly high for this scenario.
75. See responses (72) and (74).
76. See response (74).
77. See response (73) and (74).
78. Accepted as stated.
79. Accepted as stated.
80. Accepted with reservations. The paragraphs on benchmarks and TPH will be dropped pending receipt and review of revised DEQ guidance (which are not yet released); however, there is a concern that the guidance may not address benchmarks with respect to petroleum contamination.
81. Accepted as stated.
82. Accepted as stated.

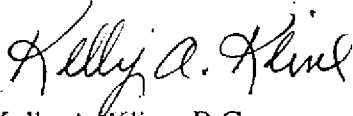
83. Accepted as stated. Revise as per final guidance.
84. Accepted as stated.
85. Accepted as stated.
86. Accepted as stated. Editorial.
87. Accepted as stated. Comment will be reworded to state that surface soil samples will be collected at depths of 0 to 6 inches at the selected sample locations, which is assumed to represent surface soil conditions.
88. Accepted as stated.
89. Accepted as stated.
90. Accepted as stated.
91. Accepted as stated.
92. Accepted as stated. The well will not be sampled. The SPH thickness will be measured and recorded.
93. DEQ is correct in their assumption. The text will be clarified.
94. Accepted as stated. The information will be provided.
95. Accepted as stated. See response (17).
96. See response (18).
97. Accepted as stated. PEG will provide information.
98. The reference will be changed from "Tables 6-1 and 6-2" to "Section A.4 of the Field Sampling Plan".
99. The reference will be changed from "Section 6.1.1" to "Section A.4 of the Field Sampling Plan".
100. Table B-A-1 is a further elaboration of Table B-7-2 for metals. The reference in Table B-7-2 will be changed from "Attachment 1" to "Table B-A-1".
101. Accepted as stated.
102. Accepted as stated.

June 10, 1998
Page 15

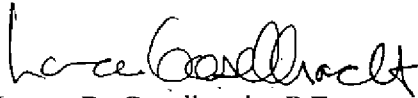
PEG hopes these responses satisfactorily address your comments. If you have any questions about the contents of this letter or need further information, please call.

Sincerely,

Pacific Environmental Group, Inc.



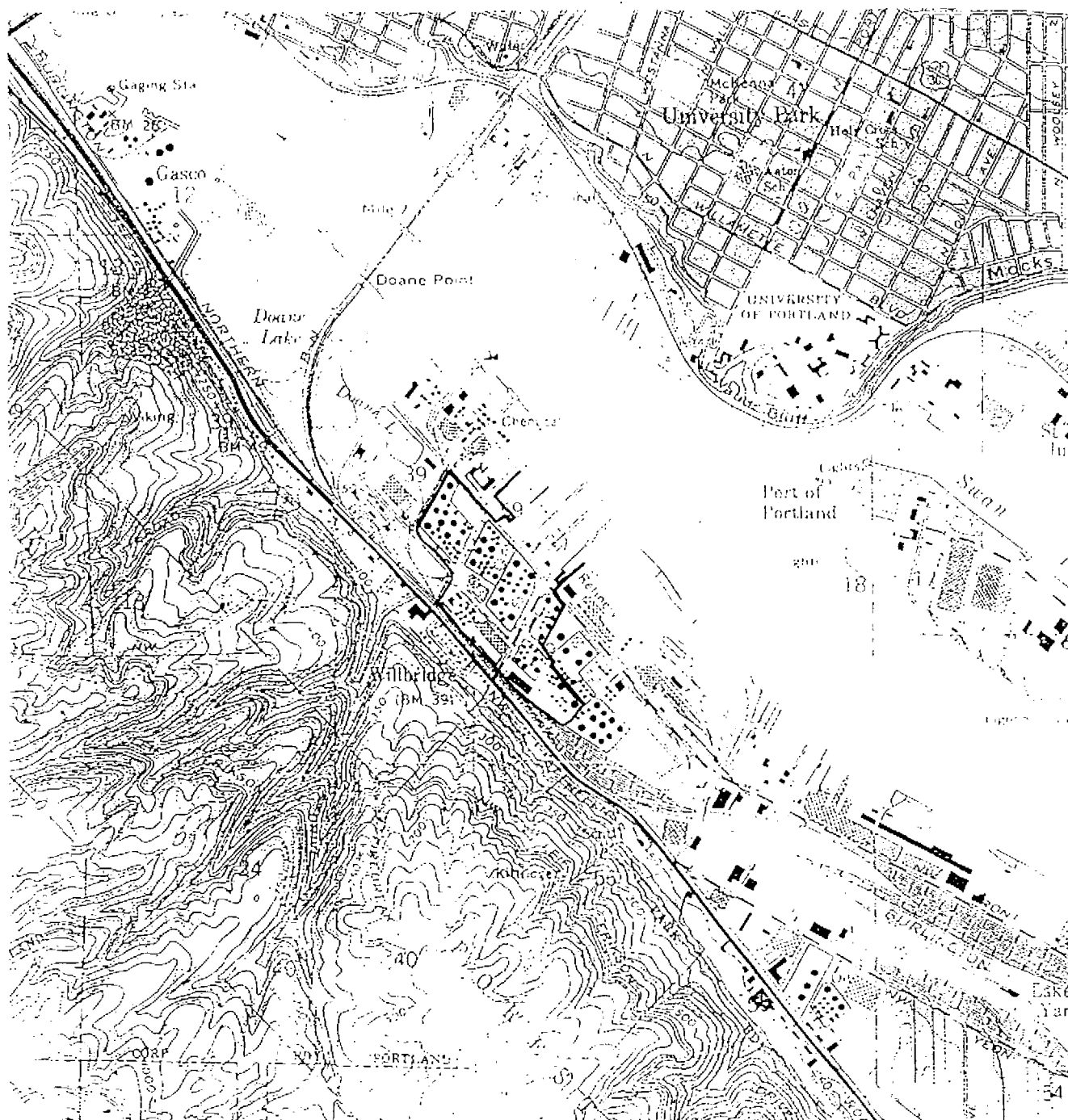
Kelly A. Kline, R.G.
Project Geologist



Lance D. Geselbracht, P.E.
Senior Engineer

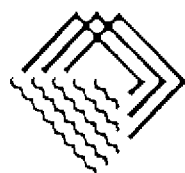
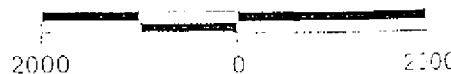
Attachments: Figure 2-1 Vincinty Map
Figure 2-2 Base Map
Figure 5-2 Proposed RI Field Sample Locations
Attachment A - Section 3 Conceptual Site Model

cc: Mr. Eric Conard, GATX Terminals Corporation
Mr. Martin Cramer, Tosco Distribution Company
Mr. Irv Jenkins, Shell Oil Products Company
Mr. Gerald O'Regan, Chevron Products Company



Reference: Portland & Linton Quadrangles, USGS 7.5 Minute Series 1961
 Photorevised 1986

SCALE IN FEET

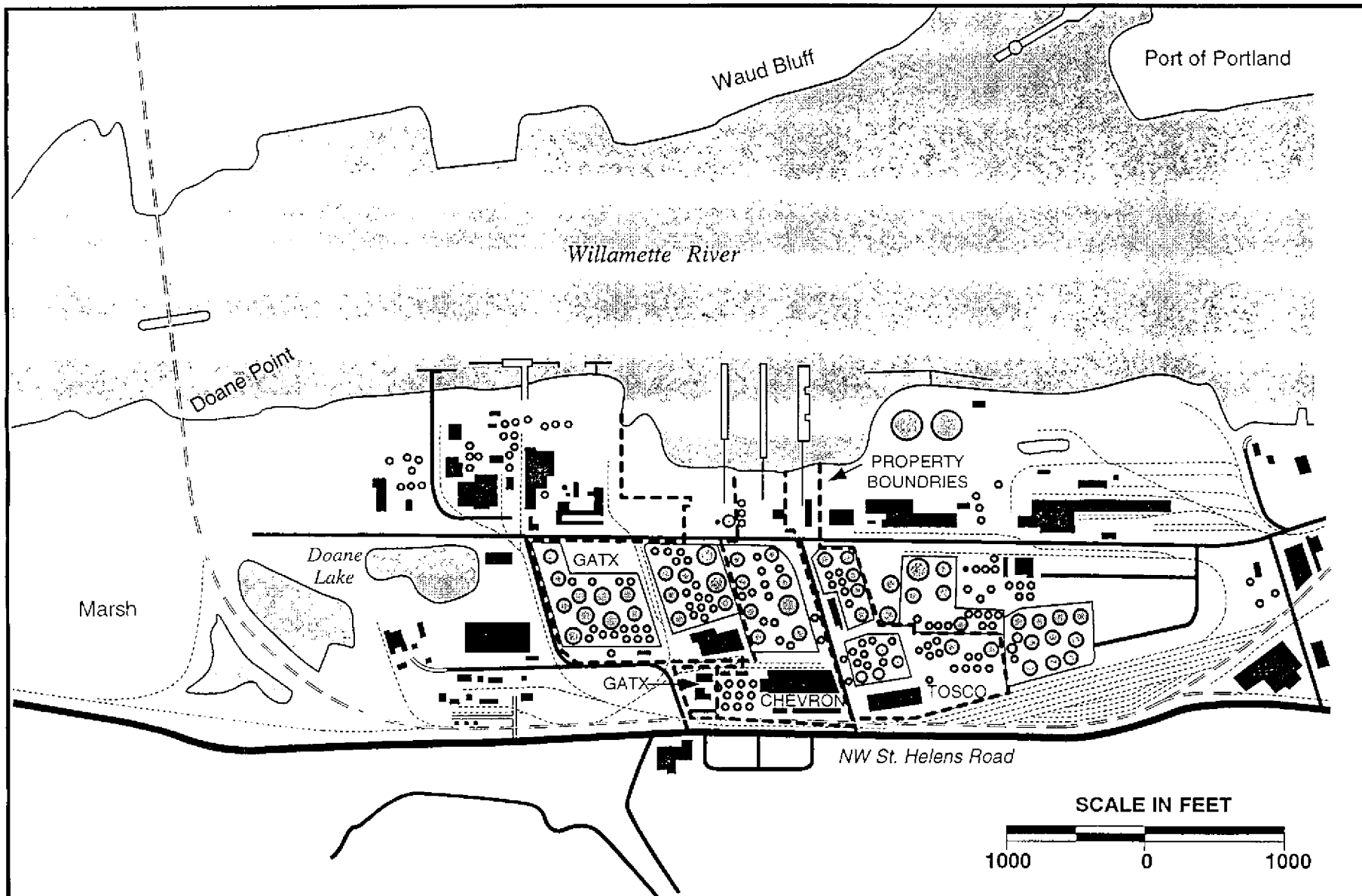


PACIFIC
 ENVIRONMENTAL
 GROUP, INC.

WILLBRIDGE FACILITY
 Portland, Oregon

VICINITY MAP

FIGURE
 2-1
 PROJECT
 1110-1997B



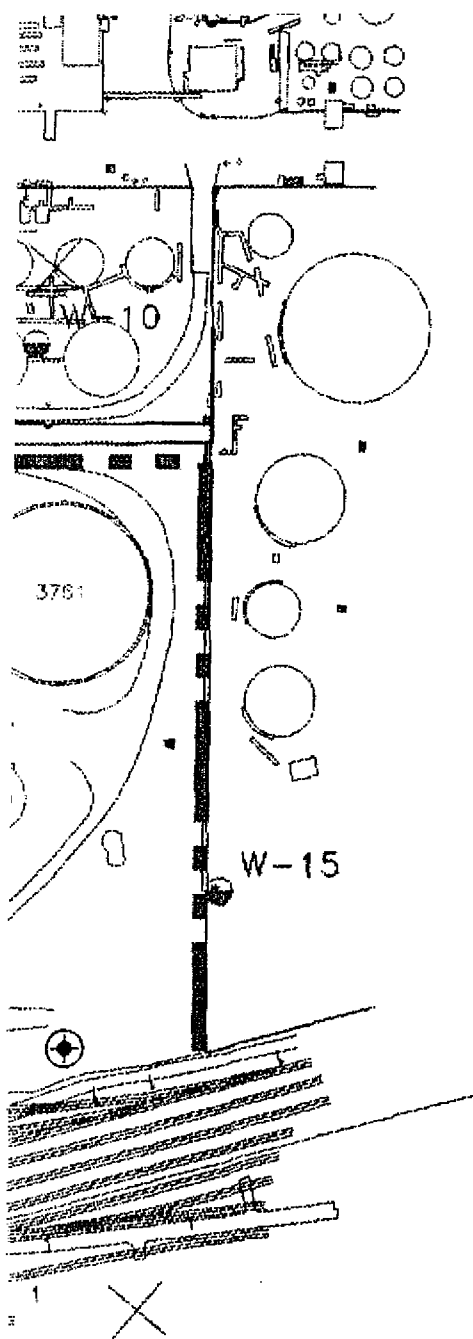
PACIFIC
ENVIRONMENTAL
GROUP, INC.

WILLBRIDGE FACILITY
Portland, Oregon

BASE MAP

FIGURE:
2 - 2
PROJECT:
1115-099.7B

COP0019118



TITLE:

PROPOSED RI FIELD SAMPLE LOCATIONS

PREPARED FOR:

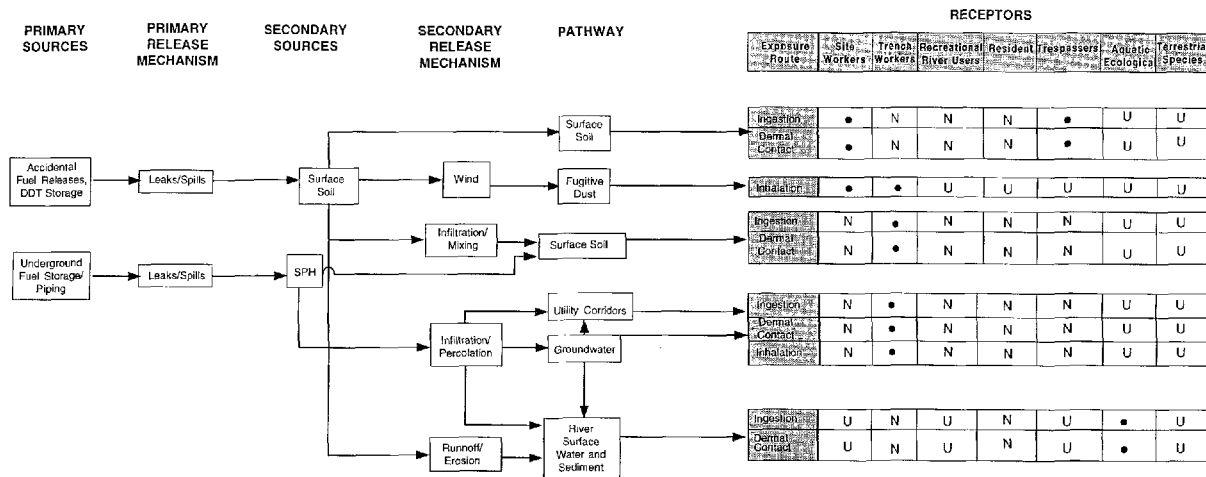
WILLBRIDGE FACILITY
Interim Action Plan
Portland, Oregon

DATE: 5-4-98

PROJECT: 1115-099.7B

FIGURE: 5-2

ATTACHMENT A
SECTION 3
CONCEPTUAL SITE PLAN



Notes:

- = Complete Major Exposure Pathway
- N = Incomplete or Insignificant Exposure Pathway
- U = Insufficient Data to Confirm or Eliminate Exposure Pathway



PACIFIC
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GROUP, INC.

NOT TO SCALE

REMEDIAL INVESTIGATION WORK PLAN
WILLBRIDGE FACILITY
Portland, Oregon

CONCEPTUAL SITE MODEL

FIGURE:
3-1
PROJECT:
B15-099.7B



Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207
Telephone: 503-248-1529
Facsimile: 503-248-1597

July 21, 1998

Mr. Eric DeBerry
City of Portland
Environmental Services
1211 SW 5th Ave., Rm. 800
Portland, OR 97204-3713

**Re: Remediation Related Groundwater Discharges to Wastewater System
Tosco Portland Terminal**

Dear Eric:

Pursuant to our discussion of some time ago, I have prepared this letter to summarize the remediation activities conducted at the Tosco Portland Terminal that resulted in the discharge of groundwater to the terminal's wastewater treatment system. To date, these activities have involved the operation of a groundwater pump and treat system for recovery of subsurface free product and groundwater dewatering during the installation of the free product cutoff wall around the 60-inch storm sewer.

As you recall, in February of 1997 we overfilled a tank resulting in the release of approximately 11,700 gallons of gasoline. Immediately following the spill we installed a free product recovery system that involved pumping free product and groundwater from two wells. The recovered fluids were passed first through an oil/water separator to remove the gasoline with the water then pumped through two, one thousand pound, carbon treatment vessels before being discharged to the terminal wastewater system.

The system operated from March 1997 to July 1997 when it was shut down due to a significant reduction in product recovery effectiveness and minimal product thickness in the recovery wells. It was restarted in October 1997 when additional product was noted in the wells and operated until early February 1998 when the cold temperatures caused the system to freeze up. Due to the lack of product recovery and the absence of significant product in the wells the system was shut down for good. During system operation, only about 48 gallons of product were recovered while pumping approximately 195,000 gallons of water. A summary of the recovery and pumping data is shown in the attached table.

Three sets of samples were from the carbon treatment system influent and effluent to ensure we were not discharging contaminated water to the terminal wastewater system. The results from the initial set of samples collected in early March were submitted to you previously in our correspondence dated March 14, 1997. Two additional sets of samples were taken on March 20, 1997 and July 18, 1997. For the first set of samples, only the carbon system influent (Separator Discharge Water Sample) and effluent from the second carbon vessel (Carboy Discharge Water Sample). For the second set, a sample was also taken of the water from between the two carbon vessels (Carbon Vessel #1 Discharge) to determine if breakthrough has occurred.

COP0019122

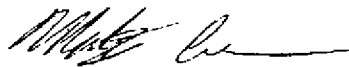
July 21, 1998
Mr. Eric DeBerry
Page 2

The analytical results found only minimal concentrations of ethylbenzene (0.0006 ppm), toluene (0.002 ppm), and total xylenes (0.0037 ppm) in the carbon system discharge on March 20 and only 0.0030 ppm of total xylenes in the system discharge on July 18. Copies of the laboratory reports are attached.

Regarding the dewatering activities conducted in January of this year during the installation of the cutoff wall, groundwater containing very minor amounts of free product (basically a sheen) were discharged directly to the terminal wastewater treatment system. The product in the vicinity of the cutoff wall was characterized as semi-weathered diesel and thus contained very little, if any, benzene, toluene, ethylbenzene, or xylenes. We had installed a meter on the dewatering pump discharge line but it kept clogging so we resorted to periodically timing the fill rate of a 5-gallon bucket to determine pumping rates and total gallons pumped. Over the four or five days of dewatering, the total amount of water discharged to the terminal treatment system was estimated at 6,000 gallons.

If you have any questions or comments, please feel free to contact me at 248-1517.

Sincerely,



Martin Cramer
Project Manager, Remediation



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993

September 29, 1998

Martin N. Cramer
Tosco Distribution Company
5528 NW Doane Avenue
Portland, Oregon 97210

CERTIFIED MAIL NO. Z 577 226 492
RETURN RECEIPT REQUESTED

**RE: NOTICE TO CURRENT AND/OR PAST OWNERS
AND OPERATORS OF PROPOSAL TO ADD
CONTAMINATED PROPERTY TO DEQ's
CONFIRMED RELEASE LIST (CRL) AND
INVENTORY**

Willbridge Bulk Fuel Area
NW Doane Avenue, Portland
ECSI ID No. # 1549
Preliminary Assessment Equivalent 29-AUG-93

Dear Mr. Cramer:

The Oregon Legislature has directed the Department of Environmental Quality (Department) to develop and maintain two lists, the Confirmed Release List (CRL) and Inventory, for the purposes of tracking sites with releases of hazardous substances. The CRL includes all sites where releases of hazardous substances have been confirmed. A release is considered to be "confirmed" when the Department documents a release of a hazardous substance that may pose a significant threat to human health or the environment. The Inventory includes those sites with a confirmed release where the Department has determined that additional investigation or cleanup is necessary. Both the CRL and the Inventory are updated quarterly and made available to the public upon request.

This letter is notification that the Department proposes to include the Willbridge Bulk Fuel Area site at NW Doane Avenue, Portland on the CRL and Inventory. Because we understand that the information we possess regarding this site may be outdated or incomplete, you have an opportunity to provide any comments you believe will correct or supplement this listing information. All comments must be received by the Department within forty-five (45) days from your receipt of this notice. If you are unable to respond within the initial 45-day comment period, you may request an extension of forty-five (45) days.

The Department reviews and responds to all comments received on listing proposals. State Law (ORS 465.330) requires the recovery, from responsible parties, of all state expenses associated with remedial

September 29, 1998

Martin N. Cramer

Page 2

actions. Therefore, the Department will track its costs in responding to any comments received on the listing proposal for this site.

After reviewing submitted comments and making its final listing decision, the Department will send an invoice to the responsible party for the costs associated with the review process, unless the comments demonstrate that the site should not be listed. Please note that should you or any other party respond to this listing proposal with a cleanup report, the Department will recover the costs associated with the report review.

Listing this property does not necessarily mean that you are responsible for the contamination, investigation or cleanup. Responsibility for these activities is prescribed by various provisions in state and federal laws. The site can be removed from either the CRL or Inventory after all necessary actions are taken to ensure protection of human health and the environment. We appreciate the work you have done to clean up or investigate this site and hope we can continue to work together to eliminate threats to Oregon from hazardous materials.

Comments and requests for extensions should be sent to:

Oregon Department of Environmental Quality
Site Assessment Program
Waste Management and Cleanup Division
811 SW 6th Avenue, 8th Floor
Portland, OR 97204

Enclosed, please find the Site Summary Report for Willbridge Bulk Fuel Area which outlines current site conditions and a fact sheet which explains the listing process. If you have specific questions about the CRL, Inventory, or site activities, or want copies of the Oregon Environmental Cleanup Law, please contact the Department's listing coordinator Kimberlee Van Patten at (503) 229-5256 or at the address shown above.

Sincerely,



Dick Pedersen
Manager
Cleanup Policy and Program Development

Enclosures: Site Summary Report and Fact Sheet
cc: Jill Kiernan; NWR, DEQ
ECSI File # 1549

COP0019125

ENVIRONMENTAL CLEANUP SITE INFORMATION
SITE SUMMARY REPORT

September 28, 1998 11:09 am

=====

SITE ID: 1549	SITE NAME: Willbridge Bulk Fuel Area	CERCLIS NO:
-----	-----	-----
	ALIASES: Chevron - Willbridge Dist. Terminal (ECSI #25)	
	Shell Oil Company - Willbridge Plant (ECSI #160)	
	UNOCAL - Willbridge Terminal (ECSI #177)	
	ADDRESS: NW Doane AVE Portland 97210	

	COUNTY: MULTNOMAH	REGION: NWR
	-----	-----
	INVG STATUS: SUS	NPL SITE: N
		ORPHAN SITE: N
		STUDY AREA: Y
PROPERTY:	TWNSHP/RANGE/SECT: 0 , 0 , 0	TAX LOTS:
-----	-----	-----
	LATITUDE: 0 deg.0'0"	LONGITUDE: 0 deg.0'0"
		SITE SIZE:
	-----	-----

=====

STUDY AREAS:	STUDY ID	STUDY NAME	INVG STATUS
-----	-----	-----	-----
	1544	Lower Willamette River Basin Study Area (LWRBSA)	XCN

=====

FACILITIES:	NAME: Willbridge Bulk Fuel Area
-----	-----
	YEARS OF OPERATION:

	SIC CODES: 5171
	OPERATING STATUS: Active

=====

HAZARDOUS SUBSTANCES/WASTE TYPES:

Petroleum hydrocarbons, benzene, toluene, ethlybenzene, xylene, polynuclear aromatic hydrocarbons (PAHs), heavy metals, DDT.

MANNER AND TIME OF RELEASE:

Leaks and spills from product tanks and pipelines.

CONTAMINATION INFORMATION:

Remedial investigations have been conducted at the Shell Oil, Chevron, and Unocal facilities since the 1970s. A fairly extensive network of wells provide groundwater contamination data on all three facilities. There is free product and dissolved-phase contamination from petroleum products beneath all three facilities. There are high levels of heavy metals in groundwater beneath the

COP0019126

three facilities. In addition, there is groundwater contamination of DDT at the Shell Oil facility.

PATHWAYS:

The Willamette River is adjacent to all three sites, which is in direct hydraulic connection with the contaminated groundwater. The river is used for fishing and recreational purposes. Seepage of contaminants in groundwater into the river is on-going.

SUBSTANCE CONTAMINATION

SUBSTANCE	MEDIA CONTAMINATED	CONCENTRATION LEVEL	EVIDENCE	OBSERV. DATE
-----------	-----------------------	---------------------	----------	-----------------

ENVIRONMENTAL/HEALTH THREATS:

Contaminant concentrations in groundwater may present current and future threats to human health and the environment due to discharge of groundwater in this area to the Willamette River. Volatile emissions from the free product in groundwater may present current and future threats to the health and safety of utility/service line workers.

STATUS OF INVESTIGATIVE OR REMEDIAL ACTION:

(1/17/96 JAK/SRS) Chevron, Shell, and Unocal signed a Consent Order with DEQ on 3/30/94, for the conductance of a remedial investigation, feasibility study, and interim remedial measures. A Work Plan for Interim Actions was submitted in 9/94 and approved by DEQ in 6/95. An Interim Action Design Plan was also submitted in 4/95 and approved by DEQ in 6/95. Interim actions were initiated in 5/95 to address free-product in groundwater and contaminant seepage into the Willamette River and include: (1) free-product removal from existing monitoring wells via recovery canisters, auto-bailers, and/or petro-belts; (2) continued operation of a subsurface cutoff trench; and (3) placement of containment booms around seepage areas in the Willamette River. Although the focus of site efforts is on interim actions to control seepage of free product into the Willamette River, the submittal of an RI/FS Work Plan is scheduled for April 1997. Quarterly groundwater monitoring is ongoing. ECSI #25, 160, and 177 combined into ECSI #1549.

REMEDIAL ACTION FUNDING:

Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465

INVESTIGATIVE, REMEDIAL, AND ADMINISTRATIVE ACTIONS

ACTION	START DATE	COMPL. DATE	RESP. STAFF	AGENCY CODE	REGION	LEAD PROGRAM
SITE EVALUATION	29AUG1993	29AUG1993	Sheree Stewart	DEQ	HQ	SRS
PRELIMINARY ASSESSMENT EQUIVALENT	29AUG1993	29AUG1993	Sheree Stewart	DEQ	HQ	SRS
Listing Review completed	30AUG1993	30AUG1993	Sheree Stewart	DEQ	HQ	SRS
Insufficient information to list	31AUG1993		Sheree Stewart	DEQ	HQ	SRS
Remedial Investigation/Feasibility Study recommended	01SEP1993	01SEP1993	Sheree Stewart	DEQ	HQ	SRS
NEGOTIATIONS	02SEP1993	30MAR1994	Sheree Stewart	DEQ	HQ	SRS
Proposal for Confirmed Release List recommended	30MAR1994	30MAR1994	Jill Kiernan	DEQ	NW	SRS
Proposal for Inventory recommended	30MAR1994	30MAR1994	Jill Kiernan	DEQ	NW	SRS
REMEDIAL INVESTIGATION	30MAR1994		Jill Kiernan	DEQ	NW	SRS
Consent Order	30MAR1994	30MAR1994	Sheree Stewart	DEQ	NW	SRS
REMOVAL	30MAR1994		Jill Kiernan	DEQ	NW	SRS
Site added to database	04MAY1994		Sheree Stewart	DEQ	HQ	SRS
REMEDIAL INVESTIGATION	08SEP1997		Jill Kiernan	DEQ	NW	SRS
Facility proposed for Confirmed Release List	28SEP1998	28SEP1998	Kim Van Patten	DEQ	NW	SRS

Site ID : 1549

Willbridge Bulk Fuel Area

SITE SUMMARY REPORT

Page 4

Facility proposed for Inventory 28SEP1998 28SEP1998 Kim Van Patten DEQ NW SRS

ACTIVE PROJECTS

PROJECT ID PROJECT NAME

1822 Willbridge Bulk Fuel Area

COMMENT: Consent Order for RI/FS issued to Shell, Chevron, and Unocal on 3/30/94.

LAST UPDATED BY: kvp DATE: 28SEP1998

1822 Willbridge Bulk Fuel Area
Interim actions initiated May 1995.

2290 Unocal Willbridge II

COMMENT: Consent Order for RI/FS issued to Shell, Chevron, and Unocal on 3/30/94.
Interim actions initiated May 1995.

PARTY INFORMATION

SITE CONTACT:

ASSOCIATED PARTIES
NAME AND ADDRESS

AFFILIATION

AFFILIATION STATUS

INFORMATION
AS OF DATE

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Rd
PO Box 5004
San Ramon, CA 94583-0804
510/842-3334()
COMMENTS:

Interested Party

11SEP1998

Potential Responsible Party

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Rd
PO Box 5004
San Ramon, CA 94583-0804
510/842-3334()
COMMENTS:

Interested Party

11SEP1998

Site Contact

Eric Conrad
GATX Tank Storage Terminals Corp
PO Box 9007
Long Beach, CA 90810-0007
310/518-7746()
COMMENTS:

Interested Party

11SEP1998

Site Contact

Irv Jenkins
Shell Oil Products Company
777 Walker St
PO Box 2099
Houston, TX 77252-2099
713/241-2969()
COMMENTS:

Interested Party

11SEP1998

Potential Responsible Party

Martin N (Marty) Cramer
Project Manager, Remediation

Interested Party

11SEP1998

Tosco Distribution Company
5528 NW Doane Avenue
Portland , OR 97210
(503)248-1517 ()

COMMENTS:

Site Contact

Ron Schwab
Unocal Corporation
376 S Valencia Ave
Brea , CA 92823
714/577-1698 ()

Interested Party

11SEP1998

COMMENTS:

Potential Responsible Party

OWNERSHIP COMMENTS:

DATA SOURCES:

LAST UPDATED BY: kvp

DATE: 28SEP1998

(site_report.rpt)



The Confirmed Release List and Inventory

Informing the Public About Hazardous Substance Sites

Purpose

The purpose of this fact sheet is to describe the Confirmed Release List (CRL) and the Inventory of Hazardous Substance Sites (Inventory), and explain their relationship to the Environmental Cleanup Site Information System (ECSI) database. Maintained by the Oregon Department of Environmental Quality (DEQ) each of these tools provides information on sites where a release of hazardous substances is suspected or known to have occurred.

ECSI

One of DEQ's most basic tasks is keeping track of information about individual hazardous substance release sites. To help meet this need, ECSI was created. ECSI, an electronic database, is available to the public and can be searched for a wide range of information concerning sites with suspected or known releases of hazardous substances (except information about petroleum releases from underground storage tanks, which is available in other DEQ-maintained databases). ECSI contains information on more than 2000 sites in Oregon.

CRL

The CRL is a subset of ECSI and includes sites where a release of hazardous substances has been documented. Sites may be added to the CRL at any time after a confirmed release has been documented. There are formal processes, described in more detail below, by which sites are added to and removed from the CRL.

Inventory

About half of the sites on the CRL are also on the Inventory, a list of sites with confirmed releases that DEQ has determined also require further investigation and/or cleanup. Sites may only be added to the Inventory after a preliminary assessment (PA) or preliminary assessment equivalent (PAE) has been completed. The same formal processes for listing and de-listing sites on the CRL apply to the Inventory as well. The characteristic that distinguishes the Inventory from the CRL is that DEQ has determined, based on the PA or PAE, that further action is required to address contamination at the sites on the Inventory.

The Listing Process

DEQ adds sites to the CRL and Inventory when it determines they meet the criteria for listing:

CRL Criteria

To be added to the CRL, a site must have had a release of a hazardous substance that is confirmed by meeting both of the following criteria:

- The release has been documented by qualified observation, report or laboratory data; and
- The release is not excluded from listing by virtue of being insignificant in quantity or hazard, regulated by another program, having been adequately cleaned up or otherwise requiring no further action.

Once listed on the CRL, a site typically has a PA or PAE completed. A PA or PAE provides an in-depth review of a site's operating history and potential extent of contamination, and describes ways in which site contamination could affect human health and the environment.

DEPARTMENT OF ENVIRONMENTAL QUALITY
811 S.W. Sixth Avenue • Portland, Oregon 97204

July 1998

COP0019132

*Inventory
Criteria*

DEQ adds sites to the Inventory where further investigation is required and where removal, remedial action, or engineering or institutional controls are needed to protect public health, safety or welfare or the environment. Sites are added to the Inventory based on a PA or PAE approved or conducted by DEQ and other available information.

Procedure

Prior to adding a site to either the CRL or the Inventory, DEQ notifies site owners and operators and allows them to comment on the proposed listing or provide additional information they think might be relevant to the listing decision. Owners and operators are given a 45 day period, which can be extended by an additional 45 days upon request, to comment on the proposed listing. DEQ responds to substantive comments and new information in writing. Comments or new information sometimes indicate that the site does not meet the listing criteria. In any case, after reviewing comments, DEQ makes its decision about listing and sends a letter responding to comments and notifying the owners and operators of the listing decision. Sometimes, a meeting will be held to further discuss issues bearing on the listing decision. The actual listing usually happens within 90 days of receiving comments.

De-listing Sites

DEQ removes sites from the CRL and Inventory when all necessary investigation or other remedial action has been completed and after a public comment period. In addition, an owner, operator or other person may petition the Director to remove a facility from the list(s). DEQ will consider the same criteria under which the site was listed in reaching a decision about de-listing a site. The period for public comment on a proposal to de-list a site is at least 30 days and may be extended under certain circumstances.

In some cases, site cleanups will consist of, or will include, engineering or institutional controls. For example, after removing some of the contaminated soil from a site, other measures such as an engineering cap and a deed restriction may be implemented to protect public health and the environment. If selected or approved by DEQ as part of a cleanup remedy, institutional and engineering controls are considered to be ongoing remedial actions, and such sites must remain on the CRL and Inventory.

*CRL and
Inventory
Reports*

DEQ updates the CRL and Inventory quarterly and provides summaries of these updated lists to interested persons. These summaries identify the listed sites and include key information about each site. In addition, a more extensive facility report is available upon request for each site listed on the CRL and/or Inventory.

DEQ has available, at most of its offices, public access to a searchable database, called OPENS, containing most of the information in ECSI.

For More Information about Listing Process or Reports Contact: DEQ's Site Assessment Program at (503) 229-5913 or within Oregon at: (800) 452-4011

Internet address: <http://www.deq.state.or.us/wmc/cleanup/clean.htm>



Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207
Telephone: 503-248-1529
Facsimile: 503-248-1597

October 29, 1998

County Clerk's Office
Multnomah Co. Courthouse
1021 SW 4th
Portland, OR 97204

Re: Oregon Well Ownership Information Forms

To Whom it May Concern;

In response to a request from Lisa Juul of the Oregon Water Resources Department Well Identification Program, please find the enclosed Oregon Well Ownership Information Forms for the three groundwater monitoring wells installed at the Tosco Portland Terminal. Also enclosed is a check for \$24.00 to cover the cost of the recording fees (i.e., \$8.00/form).

Please note the legal descriptions attached to the top of each Oregon Well Ownership Information Form.

If you have any questions, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in black ink, appearing to read 'Martin A. Cramer'.

Martin A. Cramer
Project Manager, Remediation

/mac

Enclosures

COP0019134



Oregon

John A. Kitzhaber, M.D., Governor

CIRCLE K STORES INC.

AUG 25 1998

PROPERTY TAX
DEPARTMENT

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with your local county offices to determine the appropriate recording fee. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Identification Number: 20910

Start Card Number: 110859

Owner's Address:

Owner:
Company: TOSCO; PROPERTY TAX
DEPARTMENT DC 17 (C/O)
Street: PO BOX 52085
City: PHOENIX
State: AZ
Zip: 85072

Well Location:

County: Multnomah
Address: 5568 NW DOANE AVE, PORTLAND
Township: 1.00 N
Range: 1.00 E
Section: 18
Tax-lot:

If you have any questions, please do not hesitate to contact me at (503) 378-8455 ext. 260.

Sincerely,


Lisa Juul
for Tracy Eichenlaub
Licensing and Compliance Officer
Enforcement Section

Enclosure

COP0019135



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Identification Number: 20909

Start Card Number: 110858

Owner's Address:

Owner:
Company: TOSCO; PROPERTY TAX
DEPARTMENT DC 17 (C/O)
Street: PO BOX 52085
City: PHOENIX
State: AZ
Zip: 85072

Well Location:

County: Multnomah
Address: 5568 NW DOANE AVE, PORTLAND
Township: 1.00 N
Range: 1.00 E
Section: 18
Tax-lot:

If you have any questions, please do not hesitate to contact me at (503) 378-8455 ext. 260.

Sincerely,


Lisa Juul
for Tracy Eichenlaub
Licensing and Compliance Officer
Enforcement Section

Enclosure

COP0019136



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

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The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with your local county offices to determine the appropriate recording fee. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Identification Number: 20830

Start Card Number: 108071

Owner's Address:

Owner:
Company: TOSCO DISTRIBUTION CO.
Street: 5528 NW DOANE AVE
City: PORTLAND
State: OR
Zip: 97210

Well Location:

County: Multnomah
Address: SAME
Township: 1.00 N
Range: 1.00 E
Section: 18
Tax-lot: 900

If you have any questions, please do not hesitate to contact me at (503) 378-8455 ext. 260.

Sincerely,


Lisa Juul
for Tracy Eichenlaub
Licensing and Compliance Officer
Enforcement Section

Enclosure

COP0019137

* Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co. from its yards with the westerly line of the George Nittridge Donation Land Claim in Sections 18 and 19, T. 1N. R. 1E, W. 1M, which point is North 31°16'10" East 591.16 feet from an angle corner in said claim; thence South 50°38'30" East 10.10 feet to the true point of beginning; thence North 31°16'10" East along the easterly line of N.W. Doane St. running thence North 31°16'10" East 85.71 feet; thence North 31°16'10" East 376.56 feet; thence North 24°34'10" East 85.71 feet; thence North 31°16'10" East 760.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.67 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co.'s freight yards; thence North 56°38'50" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°35'30" West 344.72 feet to the place of beginning.

**STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)**

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): TOSCO CORP.

Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR, 97210

Deed Recording Number (or legal description)*: MULTNOMAH CO., TOWNSHIP 1N, RANGE 1E, SECT. 18

Well Identification Number(s): L20909 SW 1/4 OF SW 1/4 — SEE ABOVE LEGAL DESCRIPTION *
TAX-LOT 900

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

- All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
- All wells shall be securely covered to prevent any foreign substance from entering the well.
- All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
- Well casing must be protected from damage and meet minimum extension requirements.
- Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Martin Craner For Tosco Corp.

Signed or attested before me this 9th day of December, 1998

by Martin Craner State of Oregon, County of MULTNOMAH
(Name(s) of Person(s))

Shawn Gilfillan My Commission Expires: MARCH 23 2001
(Signature of Notary Public)



Recording Office Use Only
After Recording return to Property Owner(s)

Beginning at the intersection of the northern line of the George M. Doane Co. Land Grant with the westerly line of the George M. Doane Co. Land Grant in Sections 18 and 19, T. 1N. R. 12E. M. 1W. which point is North 31°16'10" East 91.18 feet from an angle corner in said claim; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 85.11 feet; thence North 31°16'10" East 76.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 343.78 feet; thence South 31°16'10" West 376.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 18°19' West 411.92 feet to the northeasterly line of the North-West Pacific Ry. Co's freight yards; thence North 50°38'30" West 108.82 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 168.12 feet; thence North 50°38'30" West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): Tosco Corp
Mailing Address: 5528 NW DONE AVE, PORTLAND, OR 97210
Deed Recording Number (or legal description)*: MULTNOMAH CO. TOWNSHIP 1N, RANGE 1E, SECT 18
Well Identification Number(s): L20910
SW 1/4 OF SW 1/2, TAX-LOT 900
SEE ABOVE LEGAL DESCRIPTION.

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.

In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

I have read the above describing my basic rights and responsibilities related to well ownership.

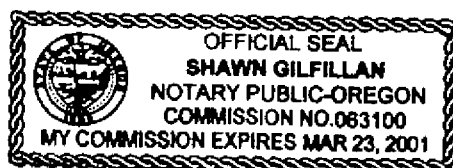
Signature of Property Owner: Robert Crane for Tosco Corp.

Signed or attested before me this 9th day of December, 1998

by Martin Crane State of Oregon, County of MULTNOMAH
(Name(s) of Person(s))

Shawn Gilfillan
(Signature of Notary Public)

My Commission Expires: MARCH 23, 2001



(Notary - Please Place Seal Here)

Recording Office Use Only
After Recording return to Property Owner(s)

COP0019139

*

Beginning at the intersection of the northeasterly line of the Northern Pacific Ry. Co's freight yards with the westerly line of the George Kittling Donation Land Claim in Sections 18 and 19, T. 1N. R. 1E, W.M., which point is North 31°16'10" East 391.18 feet from an angle corner in said claim; thence South 50°38'30" East 10.10 feet to the true point of beginning; running thence North 31°16'10" East along the easterly line of N.W. Doane St. 376.56 feet; thence North 24°34'10" East 65.71 feet; thence North 31°16'10" East 76.15 feet to the intersection of the easterly line of N.W. Doane St. with the southwesterly line of N.W. Front Ave.; thence South 41°41' East along said southwesterly line of N.W. Front Ave. 363.75 feet; thence South 31°16'10" West 576.69 feet; thence South 42°06'10" East 250.71 feet; thence South 31°16'10" West 31.31 feet; thence South 42°06'10" East 646.10 feet; thence South 48°19' West 411.92 feet to the northeasterly line of the Northern Pacific Ry. Co's freight yards; thence North 56°38'50" West 108.62 feet; thence North 42°06'10" West 406.45 feet; thence South 31°16'10" West 102.12 feet; thence North 56°39' West 150.48 feet; thence North 42°06'10" West 88.03 feet; thence North 31°16'10" East 65.31 feet; thence North 50°38'30" West 346.72 feet to the place of beginning.

STATE OF OREGON WELL OWNERSHIP INFORMATION FORM
(FILE WITH COUNTY CLERK'S OFFICE)

Pursuant to ORS 537.788, owners of property on which a well is located shall, within 60 days following the construction and/or alteration of a new well or upon property transfer, record the following information in the property deed records at the appropriate County Clerks Office. Either the deed recording number or legal description of the property may be used to identify the property.

Property Owner Name(s): TOSCO CORP.

Mailing Address: 5528 NW DOANE AVE, PORTLAND, OR 97210

Deed Recording Number (or legal description)*: MULTNOMAH CO, TOWNSHIP 1N, RANGE 1E,

Well Identification Number(s): L20830 SECT. 18, SW 1/4 OF SW 1/4, TAX-LOT 900
SEE ABOVE LEGAL DESCRIPTION *

Rights and Responsibilities: Oregon law finds that ownership and the rights to reasonable control of water within this state belongs to the public to be managed by the Water Resources Department. Most uses of water require a water right issued by the Water Resources Department. However, state law allows some uses of groundwater without benefit of a water right. Contact the Department for more information. The Water Resources Department cannot guarantee the presence of water in the desired amount on a specific property.
In addition to the above, owners of properties on which a well is located are responsible for maintaining that well in a proper manner. Some basic requirements are listed below:

1. All wells shall be maintained in a condition where they are not a threat to public health or safety, a source of contamination, or a waste of the groundwater resource.
2. All wells shall be securely covered to prevent any foreign substance from entering the well.
3. All wells shall be equipped with an access port or airline so that static water level information can be determined at any time.
4. Well casing must be protected from damage and meet minimum extension requirements.
5. Wells may only be permanently abandoned by a licensed and bonded well constructor or a landowner with a valid permit and bond. Well abandonment must be carried out in accordance with state rules.

If you would like further information about water rights, maintaining / abandoning your well, or wish to receive a copy of the administrative rules concerning well construction, please contact the Oregon Water Resources Department by phone at (503) 378-8455, or by mail at 158 12th Street NE, Salem, OR 97310.

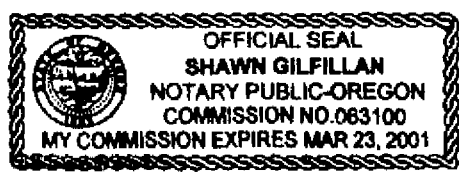
I have read the above describing my basic rights and responsibilities related to well ownership.

Signature of Property Owner: Martin Crane For Tosco Corp.

Signed or attested before me this 9th day of December, 1998,

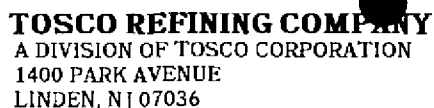
by MARTIN CRANE State of Oregon, County of MULTNOMAH
(Name(s) of Person(s))

Shawn Gilfillan My Commission Expires: MARCH 23, 2001
(Signature of Notary Public)



(Notary - Please Place Seal Here)

Recording Office Use Only
After Recording return to Property Owner(s)



7

IF YOU HAVE ANY QUESTIONS, PLEASE CALL **(908) 523-5369**

TOTAL

24.00

0.00

24.00



BankBoston Maine, N.A.
South Portland, ME

PAY TWENTY-FOUR DOLLARS AND 00 CENTS *****

VOID AFTER SIXTY DAYS

\$24.00

TO THE ORDER OF

COUNTY OF MULTNOMAH OR
TAX COLLECTOR
BOX 2716
PORTLAND OR 97208-2716

BY

Dwight Wiggins

AUTHORIZED SIGNATURE

"00271169" 1011201539: 80 034 349"

COP0019141



Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207
Telephone: 503-248-1529
Facsimile: 503-248-1597

November 19, 1998

Jill Kiernan, P.E.
Department of Environmental Quality
2020 SW Fourth Ave., Suite 400
Portland, Oregon 97201-4987

Re: Portland Tosco Terminal Phase II Environmental Assessment Report

Dear Ms. Kiernan,

Please find the enclosed assessment report for the former UNOCAL/76 Products Company Terminal in Portland, Oregon. This asset was purchased by Tosco along with other UNOCAL assets on March 31, 1997.

The enclosed report provided by Remediation Technologies, Inc. was not intended to be a full environmental assessment. This limited supplemental investigation was intended to fill data gaps in previous assessment work. Assessment activities were conducted between September and October 1997. The report, however, was not finalized until late September 1998.

If you have any questions or require additional information, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in black ink, appearing to read 'Martin Cramer', with a long horizontal flourish extending to the right.

Martin Cramer
Project Manager, Remediation

Enclosure

COP0019142



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993

December 29, 1998

Martin N. Cramer
Tosco Distribution Company
5528 NW Doane Avenue
Portland, Oregon 97210

CERTIFIED MAIL NO. Z 577 226 123
RETURN RECEIPT REQUESTED

**RE: NOTICE TO CURRENT AND/OR PAST OWNERS
AND OPERATORS OF DECISION TO LIST
CONTAMINATED PROPERTY ON THE
CONFIRMED RELEASE LIST (CRL) AND
INVENTORY**
Willbridge Bulk Fuel Area
NW Doane Avenue, Portland
ECSI ID NO. # 1549

Dear Mr. Cramer:

By letter dated September 29, 1998 the Department of Environmental Quality (Department) Site Assessment Program notified you as an owner or operator of the Willbridge Bulk Fuel Area site of the Department's proposal to add this facility to the Confirmed Release List (CRL) and Inventory. The notice invited comments on the proposed listing. None were received.

Willbridge Bulk Fuel Area meets the criteria for listing, and with this notice the Department is adding it to the CRL and Inventory. Enclosed is the Site Summary Report, which includes the information about the Willbridge Bulk Fuel Area site that will appear on the CRL and Inventory.

The Department updates the CRL and Inventory quarterly and provides copies to area newspapers and to the public upon request. A facility can be removed from the CRL and Inventory after all necessary cleanup is completed. If you are not already working with the Department but plan to investigate or clean up the site, please contact us. We want to work together to eliminate threats to Oregon from hazardous materials. In any event, we will notify you before initiating any new action at the above-named facility.

December 29, 1998

Mr. Cramer

Page 2

As noted in the earlier letter to you, listing your property does not necessarily mean that you are responsible for the contamination, investigation or cleanup. Responsibility for these costs is prescribed by various provisions in state and federal laws. If you have specific questions about the CRL or Inventory, or want copies of the statute or regulations governing the Department's site assessment, listing, or cleanup processes, please contact Listing Coordinator Kimberlee Van Patten at (503) 229-5256 or at the address shown on the letterhead.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Christensen", with a long horizontal line extending to the right.

Jeff Christensen
Interim Manager
Cleanup Policy and Program Development

Enclosures: Site Summary Report

cc: Jill Kiernan; NWR, DEQ
ECSI File # 1549

COP0019144

ENVIRONMENTAL CLEANUP SITE INFORMATION
SITE SUMMARY REPORT

December 29, 1998 02:12 pm

=====

SITE ID: 1549	SITE NAME: Willbridge Bulk Fuel Area	CERCLIS NO:
-----	-----	-----
	ALIASES: Chevron - Willbridge Distribution Terminal	
	Shell Oil Co. - Willbridge Plant	
	Unocal - Willbridge Terminal	

	ADDRESS: NW Doane AVE Portland 97210	

	COUNTY: MULTNOMAH	REGION: NWR
	-----	-----
	INVG STATUS: LIS	NPL SITE: N
	-----	-----
	ORPHAN SITE: N	STUDY AREA: Y
	-----	-----
PROPERTY:	TWNSHP/RANGE/SECT: 0 , 0 , 0	TAX LOTS:
-----	-----	-----
	LATITUDE: 0 deg.0'0"	LONGITUDE: 0 deg.0'0"
	-----	SITE SIZE:
	-----	-----

=====

STUDY AREAS:	STUDY ID	STUDY NAME	INVG STATUS
-----	-----	-----	-----
	1544	Lower Willamette River Basin Study Area (LWRBSA)	XCN

=====

FACILITIES:	NAME: Willbridge Bulk Fuel Area
-----	-----
	YEARS OF OPERATION:

	SIC CODES: 5171

	OPERATING STATUS: Active

=====

HAZARDOUS SUBSTANCES/WASTE TYPES:

Petroleum hydrocarbons, benzene, toluene, ethlybenzene, xylene, polynuclear aromatic hydrocarbons (PAHs), heavy metals, DDT.

MANNER AND TIME OF RELEASE:

Leaks and spills from product tanks and pipelines.

CONTAMINATION INFORMATION:

Remedial investigations have been conducted at the Shell Oil, Chevron, and Unocal facilities since the 1970s. A fairly extensive network of wells provide groundwater contamination data on all three facilities. There is free product and dissolved-phase contamination from petroleum products beneath all three facilities. There are high levels of heavy metals in groundwater beneath the

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three facilities. In addition, there is groundwater contamination of DDT at the Shell Oil facility.

PATHWAYS:

The Willamette River is adjacent to all three sites, which is in direct hydraulic connection with the contaminated groundwater. The river is used for fishing and recreational purposes. Seepage of contaminants in groundwater into the river is on-going.

SUBSTANCE CONTAMINATION

SUBSTANCE	MEDIA CONTAMINATED	CONCENTRATION LEVEL	EVIDENCE	OBSERV. DATE
-----------	-----------------------	---------------------	----------	-----------------

ENVIRONMENTAL/HEALTH THREATS:

Contaminant concentrations in groundwater may present current and future threats to human health and the environment due to discharge of groundwater in this area to the Willamette River. Volatile emissions from the free product in groundwater may present current and future threats to the health and safety of utility/service line workers.

STATUS OF INVESTIGATIVE OR REMEDIAL ACTION:

(1/17/96 JAK/SRS) Chevron, Shell, and Unocal signed a Consent Order with DEQ on 3/30/94, for the conductance of a remedial investigation, feasibility study, and interim remedial measures. A Work Plan for Interim Actions was submitted in 9/94 and approved by DEQ in 6/95. An Interim Action Design Plan was also submitted in 4/95 and approved by DEQ in 6/95. Interim actions were initiated in 5/95 to address free-product in groundwater and contaminant seepage into the Willamette River and include: (1) free-product removal from existing monitoring wells via recovery canisters, auto-bailers, and/or petro-belts; (2) continued operation of a subsurface cutoff trench; and (3) placement of containment booms around seepage areas in the Willamette River. Although the focus of site efforts is on interim actions to control seepage of free product into the Willamette River, the submittal of an RI/FS Work Plan is scheduled for April 1997. Quarterly groundwater monitoring is ongoing. ECSI #25, 160, and 177 combined into ECSI #1549.

REMEDIAL ACTION FUNDING:

Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465

INVESTIGATIVE, REMEDIAL, AND ADMINISTRATIVE ACTIONS

ACTION	START DATE	COMPL. DATE	RESP. STAFF	AGENCY CODE	REGION	LEAD PROGRAM
SITE EVALUATION	29AUG1993	29AUG1993	Sheree Stewart	DEQ	HQ	SRS
PRELIMINARY ASSESSMENT EQUIVALENT	29AUG1993	29AUG1993	Sheree Stewart	DEQ	HQ	SRS
Listing Review completed	30AUG1993	30AUG1993	Sheree Stewart	DEQ	HQ	SRS
Insufficient information to list	31AUG1993		Sheree Stewart	DEQ	HQ	SRS
Remedial Investigation/Feasibility Study recommended	01SEP1993	01SEP1993	Sheree Stewart	DEQ	HQ	SRS
NEGOTIATIONS	02SEP1993	30MAR1994	Sheree Stewart	DEQ	HQ	SRS
Proposal for Confirmed Release List recommended	30MAR1994	30MAR1994	Jill Kiernan	DEQ	NW	SRS
Proposal for Inventory recommended	30MAR1994	30MAR1994	Jill Kiernan	DEQ	NW	SRS
REMEDIAL INVESTIGATION	30MAR1994		Jill Kiernan	DEQ	NW	SRS
REMOVAL	30MAR1994		Jill Kiernan	DEQ	NW	SRS
Consent Order	30MAR1994	30MAR1994	Sheree Stewart	DEQ	NW	SRS
Site added to database	04MAY1994		Sheree Stewart	DEQ	HQ	SRS
REMEDIAL INVESTIGATION	08SEP1997		Jill Kiernan	DEQ	NW	SRS
Facility proposed for Confirmed Release List	28SEP1998	28SEP1998	Kim Van Patten	DEQ	NW	SRS

```
=====
Facility proposed for Inventory      28SEP1998   28SEP1998   Kim Van Patten      DEQ      NW      SRS
.....
Facility placed on Confirmed          29DEC1998   29DEC1998   Kim Van Patten      DEQ      NW      SRS
Release List
.....
Facility placed on Inventory          29DEC1998   29DEC1998   Kim Van Patten      DEQ      NW      SRS
.....
=====
```

ACTIVE PROJECTS

```
-----
PROJECT          PROJECT
ID              NAME
-----
```

1822 Willbridge Bulk Fuel Area

COMMENT: Consent Order for RI/FS issued to Shell, Chevron, and Unocal on 3/30/94.

```
=====
LAST UPDATED BY: kvp      DATE: 29DEC1998
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=====
```

1822 Willbridge Bulk Fuel Area
Interim actions initiated May 1995.

2290 Unocal Willbridge II

COMMENT: Consent Order for RI/FS issued to Shell, Chevron, and Unocal on 3/30/94.
Interim actions initiated May 1995.

PARTY INFORMATION

SITE CONTACT:

ASSOCIATED PARTIES
NAME AND ADDRESS

AFFILIATION

AFFILIATION STATUS

INFORMATION
AS OF DATE

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Rd
PO Box 5004
San Ramon, CA 94583-0804
510/842-3334()

Interested Party

11SEP1998

COMMENTS:

Potential Responsible Party

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Rd
PO Box 5004
San Ramon, CA 94583-0804
510/842-3334()

Interested Party

11SEP1998

COMMENTS:

Site Contact

Eric Conrad
GATX Tank Storage Terminals Corp
PO Box 9007
Long Beach, CA 90810-0007
310/518-7746()

Interested Party

11SEP1998

COMMENTS:

Site Contact

Irv Jenkins
Shell Oil Products Company
777 Walker St
PO Box 2099
Houston, TX 77252-2099
713/241-2969()

Interested Party

11SEP1998

COMMENTS:

Potential Responsible Party

Martin N (Marty) Cramer
Project Manager, Remediation

Interested Party

11SEP1998

COP0019149

Tosco Distribution Company
5528 NW Doane Avenue
Portland , OR 97210
(503)248-1517 ()

COMMENTS:

Site Contact

.....
Ron Schwab
Unocal Corporation
376 S Valencia Ave
Brea , CA 92823
714/577-1698 ()

Interested Party

11SEP1998

COMMENTS:

Potential Responsible Party

OWNERSHIP COMMENTS:

DATA SOURCES:

- 1) Chevron site files (ECSI #25).
2) Shell site files (ECSI #160).
3) Unocal site files (ECSI #177).
4) SRS Project Manager files.

LAST UPDATED BY: kvp

DATE: 29DEC1998

(site_report.rpt)

**Corporation**

7233 South West Kable Lane
Suite 900, Building F
Portland, OR 97224-7183
Tel. 503.639.6305
Fax. 503.639.7482

A Member of The IT Group

Date: June 15, 1999

Project: B15-099.7C

To: Ms. Jill Kiernan, P.E.

Oregon Department of Environmental Quality

2020 SW Fourth Ave., Suite 400

Portland, Oregon 97201

We have enclosed:

Copies	Description
<u>1</u>	<u>Site Plan</u>
<u>1</u>	<u>Set of laboratory reports for sediment and surface water samples</u>
<u>1</u>	<u>Set of laboratory reports for soil and groundwater samples from Front Ave</u>
<u>1</u>	<u>Set of data validation memorandums for the laboratory data.</u>
<u>1</u>	<u>Set of field notes.</u>

For your: ☒ Use
☐ Approval
☐ Review
☐ Information

Comments: Jill,

Please find attached a copy of the package of information you requested in your letter
dated June 2, 1999. As per our conversation, we agreed that the new submittal date for
the quarterly reports is June 22, 1999. Once those reports have been submitted we
believe we have complied with the requests made in the June 2, 1999 letter.

Thanks,

Kelly A. Kline

cc: Gerald O'Regan, Chevron Products Company
Marty Cramer, Tosco Distribution Company
Eric Conard, GATX Corporation
Frank Fossati, Shell Oil Products Company

COP0019151



IT Corporation

16912 North Creek Parkway, Suite 200
Bothell, WA 98011-8016
Tel. 425.485.5000
Fax. 425.486.9766

A Member of The IT Group

June 23, 2000
Project B150997B

Ms. Jill Kiernan
Department of Environmental Quality
Northwest Regional Office
2020 Southwest Fourth Avenue, Suite 400
Portland, Oregon 97201-4987

Re: Response to DEQ Comments on the Revised RI Work Plan dated April 21, 2000
Willbridge Bulk Fuel Facility
Portland, Oregon

Dear Ms. Kiernan:

IT Corporation is pleased to submit this response to your comments on the Remedial Investigation Work Plan for the Willbridge Bulk Fuel Terminal submitted to the Department of Environmental Quality (DEQ) on April 21, 2000. We have made revisions to the Work Plan in response to most of the comments provided in your May 16, 2000 letter. The attachment provides a response to each of DEQ's comments. Also attached are revised pages of text and figures as appropriate. Please use these to replace the pages in the last submittal of the Work Plan. We trust that these revisions and responses are satisfactory and have addressed your concerns.

We look forward to receiving DEQ's formal approval of the Work Plan. If you have questions concerning the work plan or need further information, please feel free to contact me at (425) 228-9645.

Sincerely,

IT CORPORATION

A handwritten signature in dark ink, appearing to read 'Richard S. Reis'.

Richard S. Reis, P.E.
Project Director

Addendum
Attachments

cc: Eric Conard; GATX
Marty Cramer; Tosco
Frank Fossati; Shell
Gerald O'Regan; Chevron

Response to DEQ Comments on RI Work Plan

1. Figure 2-3 has been revised based on corrected information provided by Chevron.
2. These facility names have been added to the legend.
3. We disagree; the screening method described in the work plan is specifically identified by EPA Region 10 for addressing cumulative effects from multiple contaminants. It is unclear what would be gained by performing a more complex screening, other than to possibly include additional chemicals that would have a negligible contribution to risk estimates. This would only make the risk assessment more complex while not changing any conclusions.
4. This is a typographical error. Change made as requested.
5. The first half of this comment is a typographical error. Change made as requested. We disagree with the second half of the comment. For the dermal exposure pathway for soil contact, there is an inherent assumption that soil remains in contact with the skin for a sufficient time to allow chemicals to be absorbed. This time is typically a full day's exposure. Use of 2 events/day representing morning and afternoon exposure would require a downward modification of absorption factors, which would offset the increase associated with the additional factor of 2.
6. The '2' in the expression for DA_{event} for inorganics should not be there. The equation has been corrected on the table.
7. The K is a typo. The equation has been corrected on the table.
8. We have clarified the text as follows: Because EPA has not promulgated dermal route toxicity values, oral route RfDs and SFs will be used to evaluate exposures to substances by the dermal route. Such route-to-route extrapolation has a scientific basis because once a chemical is absorbed, its distribution, metabolism, and elimination patterns (biokinetics) are usually similar, regardless of the exposure route. However, dermal toxicity values typically are based on absorbed dose, whereas oral exposures usually are expressed in terms of administered dose. Consequently, if adequate data concerning the gastrointestinal absorption of a COPC are available, then dermal RfDs and SFs may be derived by applying a gastrointestinal absorption factor to the oral toxicity value. Default values for gastrointestinal absorption values provided in EPA's Interim Final Guidance: Developing Risk-Based Cleanup Levels at Resource Conservation and Recovery Act Sites in Region 10 (EPA 1998b) will be used to convert oral toxicity values to dermal toxicity values in this risk assessment. These values are 80% for volatile organics, 50% for semivolatile organics, and 20% for inorganics.
9. Frank Fossati (Shell) and Rich Reis (IT Corporation) have been added to the list of personnel.
10. The schedule and text have been updated as requested. The baseline risk assessment will be included in the RI report.

inhalation RfD (RfD_i). A human adult body weight of 70 kg and an inhalation rate of 20 m³/day are used to convert an RfC to an RfD_i:

$$\text{RfD}_i (\text{mg/kg-day}) = \text{RfC} (\text{mg/m}^3) \times 20 \text{ m}^3/\text{day} \times (1/70 \text{ kg})$$

RfDs and RfCs may be derived for chronic and subchronic exposures: EPA defines *chronic* as seven years or longer and *subchronic* as two weeks to seven years (EPA 1989a). In this baseline HHRA, chronic RfDs will be employed to evaluate all potential noncancer health effects. If RfDs are not available, then alternate RfDs from similar compounds may be used. For example, NCEA recommends using the RfD for naphthalene for methylnaphthalene compounds. Similarly, for phenanthrene, the RfD for pyrene may be used.

6.6.1.3 Route-to-Route Extrapolation of Reference Doses and Slope Factors Oral-to-Dermal Extrapolation

Because EPA has not promulgated dermal route toxicity values, oral route RfDs and SFs will be used to evaluate exposures to substances by the dermal route. Such route-to-route extrapolation has a scientific basis because once a chemical is absorbed, its distribution, metabolism and elimination patterns (biokinetics) are usually similar, regardless of the exposure route. However, dermal toxicity values typically are based on absorbed dose, whereas oral exposures usually are expressed in terms of administered dose. Consequently, if adequate data concerning the gastrointestinal absorption of a COPC are available, then dermal RfDs and SFs may be derived by applying a gastrointestinal absorption factor to the oral toxicity value. Default values for gastrointestinal absorption values provided in EPA's Interim Final Guidance: Developing Risk-Based Cleanup Levels at Resource Conservation and Recovery Act Sites in Region 10 (EPA 1998b) will be used to convert oral toxicity values to dermal toxicity values in this risk assessment. These values are 80% for volatile organics, 50% for semivolatile organics and 20% for inorganics.

In this HHRA, oral route RfDs and SFs were used to assess dermal exposures to groundwater. For dermal exposures to soil, gastrointestinal absorption data are needed to derive dermal toxicity values from oral toxicity values. Because these data are available only for a limited number of compounds, none of which are anticipated to be COPCs at the site, dermal toxicity values cannot be derived. Consequently, dermal exposures to soil will not be quantitatively evaluated.

In addition, oral-to dermal extrapolation is inappropriate if the adverse health effect occurs at the point of exposure. For example, the oral RfD for copper is based on gastrointestinal tract irritation; therefore, dermal (and inhalation) route RfDs for copper cannot be extrapolated from the oral RfD. Additionally, as specified by EPA (1989a), dermal contact with carcinogenic PAHs should not be evaluated quantitatively because the SF for benzo(a)pyrene is based on the frequency of tumors at the point of contact

rather than at a systemic end point. Because of this recommendation, dermal contact with PAHs in soil or groundwater will not be evaluated in the HHRA.

Oral-to-Inhalation Extrapolation

Oral RfDs and SFs will be used as inhalation toxicity values if inhalation route RfDs and SFs are unavailable for organic COPCs. However, it is inappropriate to perform oral-to-inhalation extrapolation of toxicity values if the critical effects for either route are at the point of contact, as is the case for most metals.

6.7 Risk Characterization

This section will integrate the information developed in the exposure and toxicity assessment sections to identify the COPCs and to obtain estimates of the potential risks posed to human health at the site.

6.7.1 Potential Cancer Risks

Potential cancer risks will be assessed by multiplying the estimated LADI or absorbed dose of a carcinogen by its SF. This calculated risk is expressed as the probability of an individual developing cancer over a lifetime and is an estimated upper-bound, incremental probability.

Potential cancer risks initially will be estimated separately for exposure to each chemical for each exposure pathway. The separate potential cancer risk estimates then will be summed across chemicals and across all exposure pathways to obtain the total potential excess lifetime cancer risk for the potentially exposed population. This process will be performed for each exposure scenario evaluated at the site.

6.7.2 Noncancer Effects

The potential for adverse effects resulting from exposure to noncarcinogens will be assessed by comparing the COPC-specific CDI or absorbed dose to its chronic RfD. This comparison will be made by calculating the ratio of the estimated CDI (or absorbed dose) to the corresponding RfD to yield an HQ:

$$HQ = \frac{CDI}{RfD}$$

For example, if the daily intake of a contaminant is equal to the RfD, then the HQ is 1; if the daily intake is less than or greater than the RfD, the HQ is less than or greater than 1, respectively. HQs for individual chemicals will be summed to yield hazard indices (HIs).

HQs will be presented separately for each receptor evaluated (i.e., site visitors and workers). The receptor-specific HQs then will be summed across chemical and exposure pathways for each scenario. Separate HIs for different types of adverse health effects will be calculated only if the overall HIs exceed 1. Separate HIs will not be calculated if most of the HI value is attributable to a single chemical.

6.8 Uncertainty Analysis

An analysis of the uncertainties associated with the contaminant screening and evaluation, toxicity assessment, exposure assessment and risk characterization sections will be discussed separately within each section of the site HHRA.

6.9 Appendices

The appendices to the HHRA will include detailed information on the screening results of the risk assessment, health effects summaries for the primary COPCs, detailed risk calculation spreadsheets, details of any model performed in support of the risk assessment and other details which are not appropriate for the main text of the risk assessment. Information presented in the appendices will be summarized in the main text with references to the appropriate appendices.

Table 6-3
Human Health Risk Evaluation
Industrial Scenario

Willbridge Facility
Portland, Oregon

Inhalation of Fugitive Dust From Soil			
<p>Equation: $\text{Intake (mg/kg-day)} = \frac{CS \cdot IR \cdot EF \cdot ED \cdot FI \cdot (1/PEF)}{BW \cdot AT}$</p> <p>Where:</p> <p>CS = Chemical concentration in soil (mg/kg)</p> <p>IR = Inhalation rate (m³/day)</p> <p>EF = Exposure frequency (days/year)</p> <p>ED = Exposure duration (years)</p> <p>FI = Fraction inhaled from contaminated source (unitless)</p> <p>PEF = Particulate emission factor (m³/kg)</p> <p>BW = Body weight (kg)</p> <p>AT = Averaging time (days)</p>			
Variable	Receptor	Case	Value (Rationale/Source)
CS	Adult	RME/CTE	Exposure point concentration in soil
IR	Adult	RME/CTE	20 m ³ /day (EPA 1991a)
EF	Adult	RME/CTE	250 days/year (DEQ 1998)
ED	Adult	RME	25 years (DEQ 1998)
		CTE	6 years (DEQ 1998)
FI	Adult	RME	1.0 (see text)
		CTE	0.25 (see text)
PEF	Adult	RME/CTE	1.32 x 10 ⁹ m ³ /kg (EPA 1996a)
BW	Adult	RME/CTE	70 kg (average adult body weight; DEQ 1998)
AT	Adult	RME/CTE	Pathway-specific period of exposure for noncarcinogenic effects (i.e., ED • 365 days/year) and 70-year lifetime for carcinogenic effects (i.e., 70 years • 365 days/year) (DEQ 1998)
<p>Notes:</p> <p>CTE = Central Tendency Estimate</p> <p>DEQ = Department of Environmental Quality</p> <p>RME = Reasonable maximum exposure</p>			

Table 6-5
Human Health Risk Assessment
Trench Worker Scenario

Willbridge Facility
Portland, Oregon

Dermal Contact with Soil			
Equation: $Intake (mg/kg-day) = \frac{CS \cdot CF \cdot SA \cdot AF \cdot ABS \cdot EF \cdot E_vF \cdot ED \cdot FC}{BW \cdot AT}$			
Where:			
CS = Chemical concentration in soil (mg/kg)			
CF = Conversion factor (10^{-6} kg/mg)			
SA = Skin surface area available for contact (cm^2)			
AF = Soil to skin adherence factor (mg/cm^2 event)			
ABS = Absorption factor (unitless)			
EF = Exposure frequency (days/year)			
E_vF = Event frequency (events/day)			
ED = Exposure duration (years)			
FC = Fraction contacted from contaminated source (unitless)			
BW = Body weight (kg)			
AT = Averaging time (days)			
Variable	Receptor	Case	Value (Rationale/Source)
CS	Adult	RME/CTE	Exposure point concentration in soil
SA	Adult	RME	4,100 cm^2 (DEQ 1998)
		CTE	3,200 cm^2 (DEQ 1998)
AF	Adult	RME	1.0 mg/cm^2 event (DEQ 1998)
		CTE	0.3 mg/cm^2 event (DEQ 1998)
ABS	Adult	RME/CTE	Chemical-specific value (DEQ 1998)
EF	Adult	RME/CTE	9 days/year (DEQ 1998)
E_vF	Adult	RME/CTE	1 event/day
ED	Adult	RME	1 year (DEQ 1998)
		CTE	0.5 years (DEQ 1998)
FC	Adult	RME	1.0 (see text)
		CTE	0.25 (see text)
BW	Adult	RME/CTE	70 kg (average adult body weight; DEQ 1998)
AT	Adult	RME/CTE	Pathway-specific period of exposure for noncarcinogenic effects (i.e., ED • 365 days/year) and 70-year lifetime for carcinogenic effects (i.e., 70 years • 365 days/year) (DEQ 1998)
Notes:			
CTE = Central Tendency Estimate			
DEQ = Department of Environmental Quality			
RME = Reasonable maximum exposure			

Willbridge Facility
Portland, Oregon

Dermal Contact with Groundwater

Equation:
$$\text{Absorbed dose (mg/kg-day)} = \frac{DA_{\text{event}} \cdot SA \cdot EV \cdot EF \cdot ED \cdot FC \cdot CF}{BW \cdot AT}$$

Where, for inorganics:

$$DA_{\text{event}} = K_p \cdot CW \cdot t_{\text{event}}$$

Where, for organics:

If t_{event} is less than t^* , then

$$DA_{\text{event}} = 2 \cdot K_p \cdot CW \sqrt{\frac{6 \cdot \tau \cdot t_{\text{event}}}{\pi}}$$

If t_{event} is greater than t^* , then

$$DA_{\text{event}} = K_p \cdot CW \left[\frac{t_{\text{event}}}{1+B} + 2 \cdot \tau \left[\frac{1+3B}{1+B} \right] \right]$$

DA_{event} = Absorbed dose per event (mg/cm² per event)

SA = Skin surface area available for contact (cm²)

EV = Event frequency (events/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

FC = Fraction contacted from contaminated source (unitless)

BW = Body weight (kg)

AT = Averaging time (days)

K_p = Chemical-specific dermal permeability constant (cm/hr)

CW = Chemical concentration in groundwater (mg/L)

CF = Volumetric conversion factor for water (1 L/1,000 cm³)

t_{event} = Exposure time (hours/day)

Values for τ (hr), t^* (hr) and B (unitless) are provided in Table 5-8 in Dermal Exposure Assessment (EPA 1992b).

Variable	Receptor	Case	Value (Rationale/Source)
DA_{event}	Adult	RME/CTE	Chemical-specific value (EPA 1992b)
SA	Adult	RME	7,000 cm ² (DEQ 1998)
		CTE	5,200 cm ² (DEQ 1998)
EV	Adult	RME/CTE	2 events/day (DEQ 1998)
EF	Adult	RME/CTE	250 days/year (DEQ 1998)
ED	Adult	RME	1 year (DEQ 1998)
		CTE	0.5 years (DEQ 1998)
FC	Adult	RME	1.0 (see text)
		CTE	0.25 (see text)

Table 6-6
Human Health Risk Assessment
Trench Worker Scenario

Willbridge Facility
Portland, Oregon

Dermal Contact with Groundwater			
BW	Adult	RME/CTE	70 kg (average adult body weight; DEQ 1998)
AT	Adult	RME/CTE	Pathway-specific period of exposure for noncarcinogenic effects (i.e., ED • 365 days/year), and 70-year lifetime for carcinogenic effects (i.e., 70 years • 365 days/year) (DEQ 1998)
K _p	Adult	RME/CTE	Chemical-specific value (DEQ 1998)
CW	Adult	RME/CTE	Exposure point concentration in groundwater (see text)
t _{event}	Adult	RME/CTE	2 hours/event (DEQ 1998)
Notes: EPA = United States Environmental Protection Agency DEQ = Department of Environmental Quality CTE = Central tendency estimate RME = Reasonable maximum exposure			

Table 6-7
Human Health Risk Evaluation
Trench Worker Scenario

Willbridge Facility
Portland, Oregon

Inhalation of Fugitive Dust From Soil			
<p>Equation: $\text{Intake (mg/kg-day)} = \frac{CS \cdot IR \cdot EF \cdot ED \cdot FI \cdot (1/PEF)}{BW \cdot AT}$</p> <p>Where:</p> <p>CS = Chemical concentration in soil (mg/kg)</p> <p>IR = Inhalation rate (m³/day)</p> <p>EF = Exposure frequency (days/year)</p> <p>ED = Exposure duration (years)</p> <p>FI = Fraction inhaled from contaminated source (unitless)</p> <p>PEF = Particulate emission factor (m³/kg)</p> <p>BW = Body weight (kg)</p> <p>AT = Averaging time (days)</p>			
Variable	Receptor	Case	Value (Rationale/Source)
CS	Adult	RME/CTE	Exposure point concentration in soil
IR	Adult	RME/CTE	20 m ³ /day (EPA 1991a)
EF	Adult	RME/CTE	9 days/year (DEQ 1998)
ED	Adult	RME	1 year (DEQ 1998)
		CTE	0.5 years (DEQ 1998)
FI	Adult	RME	1.0 (see text)
		CTE	0.25 (see text)
PEF	Adult	RME/CTE	1.32 x 10 ⁹ m ³ /kg (EPA 1996a)
BW	Adult	RME/CTE	70 kg (average adult body weight; DEQ 1998)
AT	Adult	RME/CTE	Pathway-specific period of exposure for noncarcinogenic effects (i.e., ED • 365 days/year) and 70-year lifetime for carcinogenic effects (i.e., 70 years • 365 days/year) (DEQ 1998)
<p>Notes:</p> <p>CTE = Central Tendency Estimate</p> <p>DEQ = Department of Environmental Quality</p> <p>RME = Reasonable maximum exposure</p>			

Table 6-8
Human Health Risk Evaluation
Trench Worker Scenario

Willbridge Facilities
 Portland, Oregon

Inhalation of Vapors From Groundwater			
Equation: $Intake (mg/kg-day) = \frac{CA \cdot IR \cdot EF \cdot ED \cdot FI \cdot CF}{BW \cdot AT}$			
Where: CS = Chemical concentration in air (mg/m ³) IR = Inhalation rate (m ³ /day) EF = Exposure frequency (days/year) ED = Exposure duration (years) FI = Fraction inhaled from contaminated source (unitless) CF = conversion factor (0.001 mg/ug) BW = Body weight (kg) AT = Averaging time (days)			
Variable	Receptor	Case	Value (Rationale/Source)
CA	Adult	RME/CTE	Exposure point concentration in air
IR	Adult	RME/CTE	20 m ³ /day (DEQ 1998)
EF	Adult	RME/CTE	9 days/year (DEQ 1998)
ED	Adult	RME	1 year (DEQ 1998)
		CTE	0.5 years (DEQ 1998)
FI	Adult	RME	1.0 (see text)
		CTE	0.25 (see text)
BW	Adult	RME/CTE	70 kg (average adult body weight; DEQ 1998)
AT	Adult	RME/CTE	Pathway-specific period of exposure for noncarcinogenic effects (i.e., ED • 365 days/year) and 70-year lifetime for carcinogenic effects (i.e., 70 years • 365 days/year) (DEQ 1998)
Notes: CTE = Central Tendency Estimate DEQ = Department of Environmental Quality RME = Reasonable maximum exposure			

8 PROJECT MANAGEMENT AND SCHEDULE

8.1 Project Management

Tosco, Chevron, GATX and Shell have retained PEG Environmental Group as their contractor to perform the RI/FS. Key management position assignments are listed below:

Tosco Refining Company

Responsible Party RepresentativeMarty Cramer

Chevron Products Company

Responsible Party Representative Gerald O'Regan

GATX Terminals Corporation

Responsible Party Representative Eric Conard

Shell Oil Products Company

Responsible Party RepresentativeIrv Jenkins/Frank Fossati

PEG Environmental Group, Inc./IT Corporation

Principal In-charge.....Lance Geselbracht

Project Manager Kelly Kline/Rich Reis

QA/QC Manager.....Peter Geiger, E&E

RI Task Manager..... Kelly Kline

Project Safety Manager.....Kelly Kline

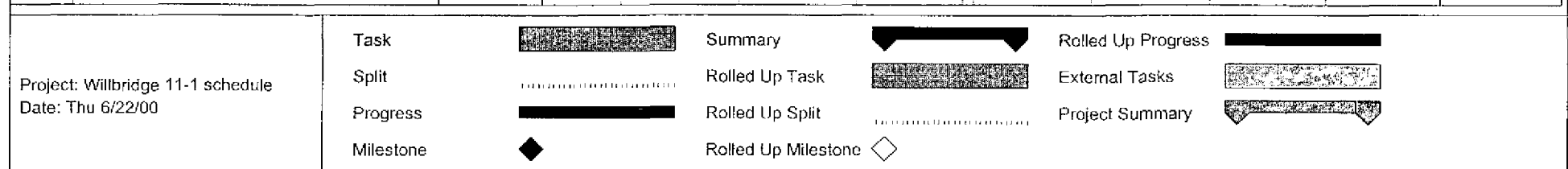
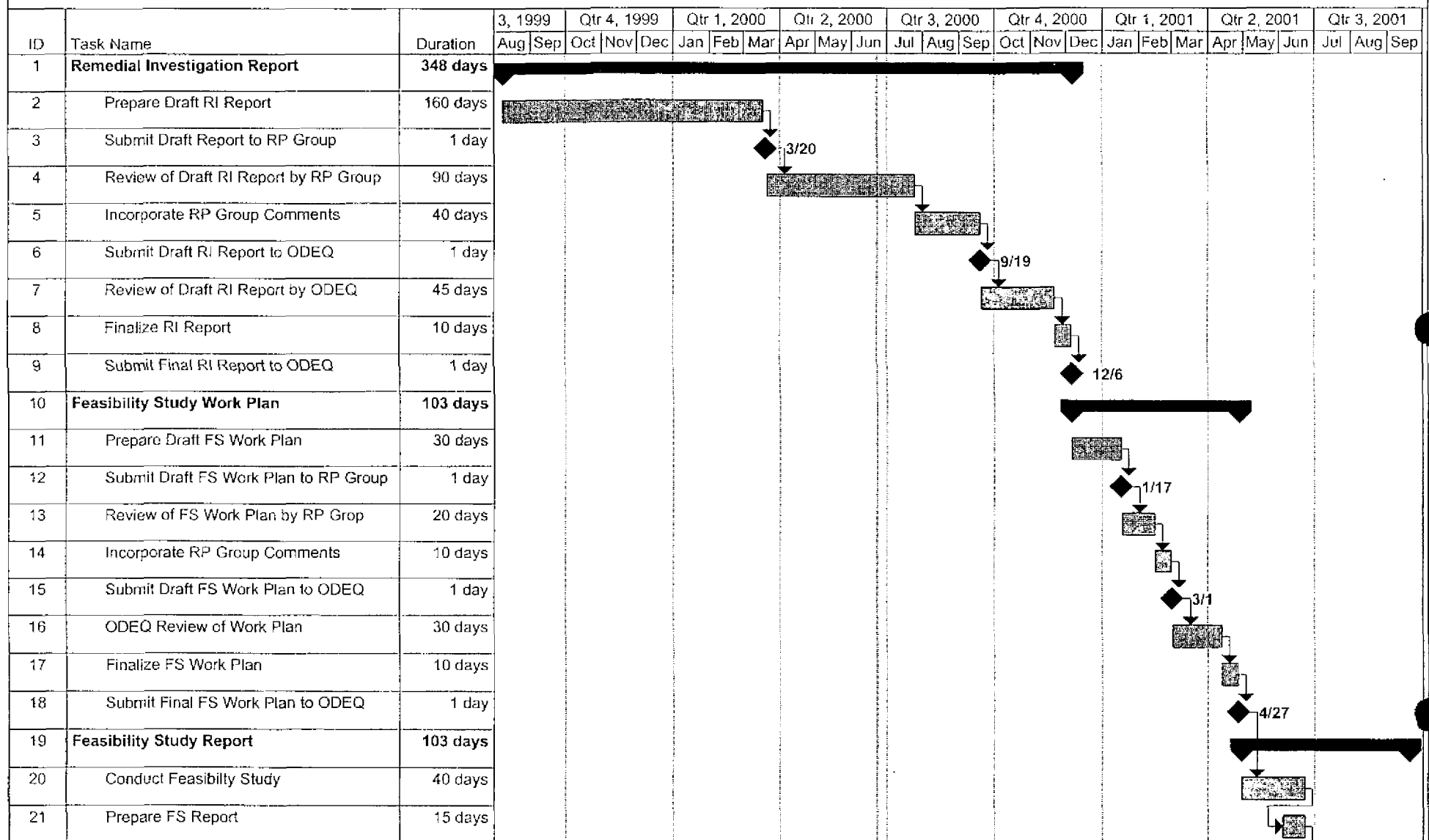
Field and office staff for the project will be drawn primarily from the Portland, Oregon and Seattle, Washington PEG Environmental Group offices. IT Corporation, which acquired PEG in 1998, will be responsible for completing and issuing the RI report.

Subcontractors will be retained to perform specific services such as drilling and laboratory analysis.

8.2 Schedule

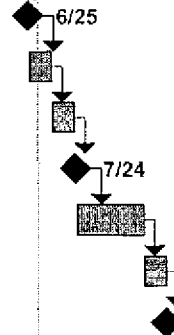
Field activities will begin within thirty (30) days of approval of this work plan. Activities will be completed within twenty-one (21) days (three weeks) after commencement, barring unforeseen circumstances (*force majeure*). Final analytical reports are expected within one (1) month after sample submission. The draft RI report will be delivered to DEQ no later than ninety (90) days (three months) following receipt of all final analytical results. The RI report will include human health and ecological risk assessments. A barchart schedule is provided in Figure 8-1.

Willbridge RI/FS Project Schedule



Willbridge RI/FS Project Schedule

ID	Task Name	Duration	3, 1999		Qtr 4, 1999			Qtr 1, 2000			Qtr 2, 2000			Qtr 3, 2000			Qtr 4, 2000			Qtr 1, 2001			Qtr 2, 2001			Qtr 3, 2001		
			Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
22	Submit Draft FS Report to RP Group	1 day																										
23	Review of FS Report by RP Grop	10 days																										
24	Incorporate RP Group Comments	10 days																										
25	Submit Draft FS Report to ODEQ	1 day																										
26	ODEQ Review of FS Report	30 days																										
27	Finalize FS Report	10 days																										
28	Submit Final FS Report to ODEQ	1 day																										



Project: Willbridge 11-1 schedule
Date: Thu 6/22/00

Task



Summary



Rolled Up Progress



Split



Rolled Up Task



External Tasks



Progress



Rolled Up Split



Project Summary



Milestone



Rolled Up Milestone



DRAWING NUMBER
B150992A

APPROVED BY

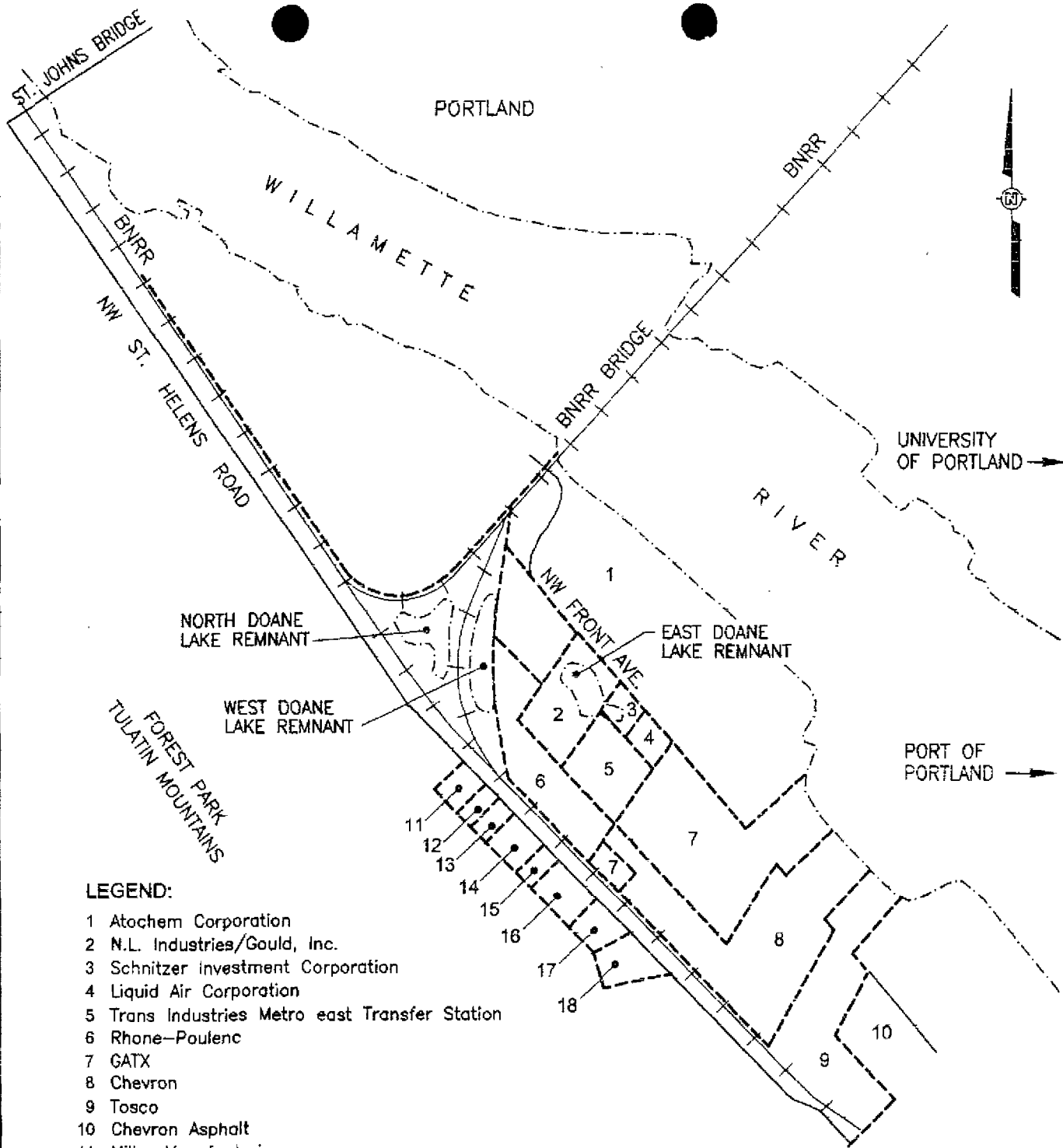
CHECKED BY

DRAWN BY

9-23-99

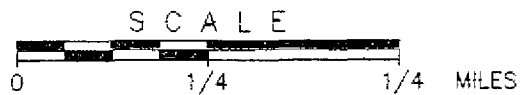
BOHELL

M. Portacio



LEGEND:

- 1 Atochem Corporation
- 2 N.L. Industries/Gould, Inc.
- 3 Schnitzer Investment Corporation
- 4 Liquid Air Corporation
- 5 Trans Industries Metro east Transfer Station
- 6 Rhone-Poulenc
- 7 GATX
- 8 Chevron
- 9 Tosco
- 10 Chevron Asphalt
- 11 Miller Manufacturing
- 12 Residential
- 13 Rays Truck Service
- 14 PP&L Sub station
- 15 Union 76 Service Station
- 16 Interstate Sand Blasting
- 17 Commercial Steam Cleaning
- 18 Anderson Roofing



REFERENCE:

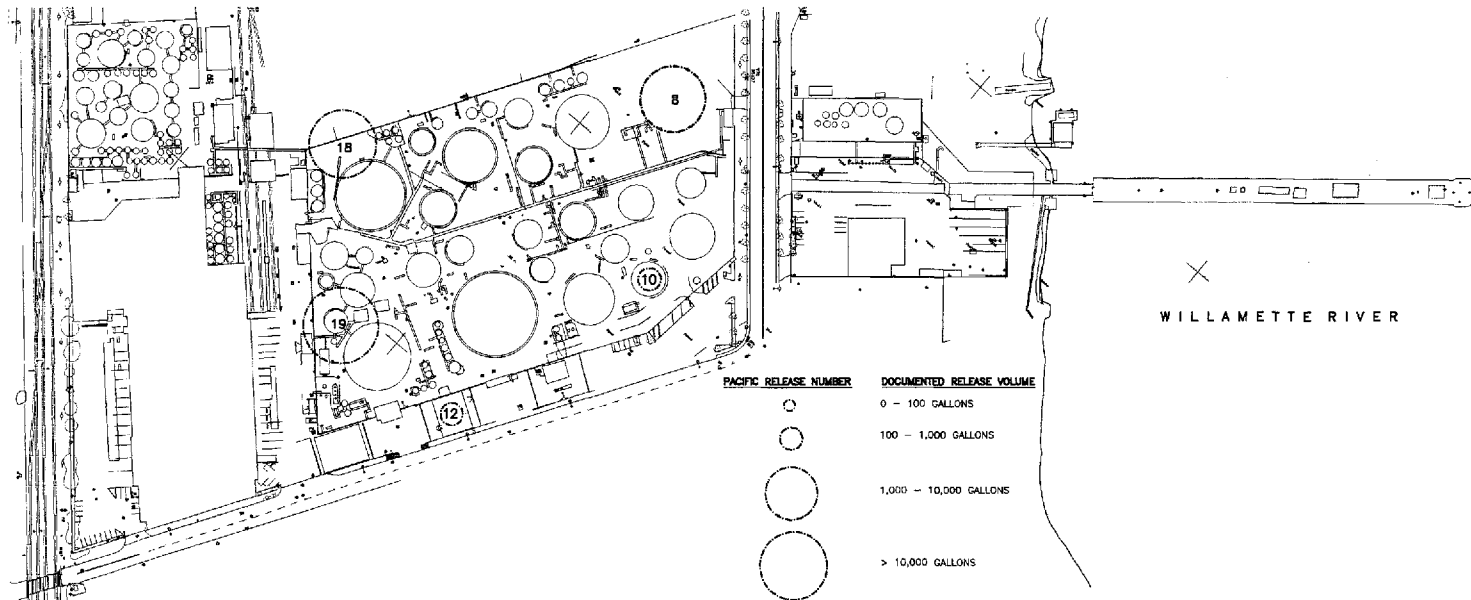
WOODWARD-CLYDE CONSULTANTS



18912 North Creek Parkway, Suite 100
Bothell, Washington 98011-8016
(425) 485-5000 Fax: (425) 486-9756

FIGURE 3-3

ADJACENT LAND USE
WILLBRIDGE FACILITY
PORTLAND, OREGON





Tosco Refining Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210

August 18, 2000

Ms. Jill Kiernan
Oregon Department of Environmental Quality
2020 Fourth Avenue, Suite 400
Portland, OR 97201-4987

Re: DEQ Oversight Invoices
Willbridge Facilities Remediation

Dear Ms. Kiernan:

On behalf of the Willbridge RP Group and further to our recent conversation, Tosco is requesting that DEQ send future oversight invoices related to this project directly to members of the RP group. Previously, the invoices were sent to our consultant, IT Group, who paid them on our behalf and billed each RP for their portion. However, we are in the process of changing consultants for the completion of the RI and may change again for the FS.

During our conversation, I requested that DEQ divide any invoices equally between the three RPs but after discussions with the group, we would prefer DEQ send copies of the entire invoices to each RP. We propose that each RP then pay their portion of the invoice individually. The reason is that although most invoices will be divided equally, there may be situations where they will not. In those cases the RPs will determine the appropriate division of costs and pay them accordingly but may request assistance from DEQ in allocating costs.

The invoicing information for each RP is provided below:

Martin Cramer
Tosco Refining Company
P.O. Box 76
Portland, OR 97207

Gerald O'Regan
Chevron Products Company
6001 Bollinger Canyon Rd.
San Ramon, CA 94583

Eric Conard
GATX
1363 North Gaffey St.
San Pedro, CA 90731

If you have any questions, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in black ink, appearing to read 'Martin Cramer'.

Martin Cramer
Project Manager, Remediation

File: Portland/Remediation/JKDEQinvoicing
cc: Gerald O'Regan, Chevron
Eric Conard, GATX
Frank Fossatti, Shell

COP0019169



Oregon

John A. Kitzhaber, M.D., Governor

Division of State Lands

775 Summer Street NE, Suite No. 100
Salem, OR 97301-1279
(503) 378-3805
FAX (503) 378-4844
TTY (503) 378-4615

August 31, 2000

JD02/23088
MARTIN CRAMER
TOSCO REFINING COMPANY
5528 NW DOANE AVE
PORTLAND OR 97210

RE: State Application Number

Dear Mr. Cramer:

We have received your application to remove petroleum hydrocarbon impacted soil from an area around the storm sewer outfall and replace it with clean fill in Section 18, Township 1N, Range 1E, Multnomah County, Oregon. The Division of State Lands requires a permit if you plan to remove, fill or alter 50 cubic yards or more of material within the banks of most waters of the state. State designated Essential Salmon Habitat streams and State Scenic Waterways are exceptions in that any amount of removal, fill or alteration typically requires a permit.

Based on your application, your project involves removal or filling of less than 50 cubic yards of material IN WATERS THAT ARE NOT CURRENTLY DESIGNATED Essential Salmon Habitat or State Scenic Waterways; therefore, a State removal-fill permit is not required.

You must also receive authorization, when required, from the U.S. Army Corps of Engineers and local planning department before beginning construction.

If you have any questions, please call me at 503-378-3805, extension 246.

Sincerely,

Lori Warner
Natural Resource Coordinator
Field Operations—Western Region

LW:jed
J:\Attachment\Awest\LAS\NSP No State Permit Required LAS\23088-NSP.doc

c: Judy Linton, Corps of Engineers
Multnomah County Planning
Greg Robart, ODFW
KHM Environmental Management, Inc.



COP0019170



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

September 8, 2000

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Road
P.O. Box 5004
San Ramon, CA 94583-0804

Frank Fossati
Shell Oil Products Company
P.O. Box 219
Lake Forest, CA 92630-0219

Martin Cramer
Tosco Refining Company
P.O. Box 76
Portland, OR 97207

Eric Conard
GATX
1363 North Gaffey Street
San Pedro, CA 90731

RE: Willbridge Bulk Fuel Facilities
DEQ Conditional Approval of the April 21, 2000, Remedial Investigation Work Plan

Gentlemen:

DEQ had reviewed and provided comments on the revised *Remedial Investigation Work Plan for the Willbridge Facility, Portland, Oregon*, dated April 21, 2000. DEQ's comments were submitted to Mr. Richard Reis of the IT Corporation by letter dated May 16, 2000. IT Corporation provided written responses to the DEQ comments in a letter dated June 23, 2000. Ecology and Environment, Inc. provided an additional response to DEQ's comment on the proposed contaminant screening method by letter dated August 23, 2000.

Based on the responses provided to DEQ, we have determined that our comments on the Remedial Investigation (RI) Work Plan have been sufficiently addressed. DEQ is pleased to provide approval of the April 21, 2000, *Remedial Investigation Work Plan for the Willbridge Facility, Portland, Oregon*, with the condition that the revisions specified in IT Corporation's June 23, 2000, response letter are incorporated into this document. DEQ requests that two final copies of a revised work plan, incorporating these revisions, be submitted to DEQ.

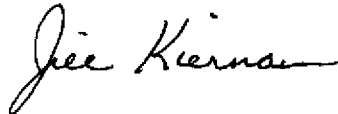
Although DEQ's concern about the proposed method for contaminant screening in the human health risk assessment remains an outstanding issue, DEQ agrees to postpone this concern at this time in the interest of finalizing and approving the RI Work Plan. However, DEQ reserves the right to require a different method of contaminant screening, if warranted, as a result of our review of the draft human health risk assessment report.



Please be advised that once the RI Work Plan is approved by DEQ, the implementation schedule provided in Section 8.2 of the work plan becomes enforceable under the terms of the Order on Consent (DEQ No. WMCSR-NWR-94-06). In an effort to see continued progress toward completion of the remedial investigation and feasibility study, DEQ expects that deliverables will be submitted by the dates specified in this schedule. Failure to submit deliverables by the scheduled dates may be regarded by DEQ as violations subject to stipulated penalties in accordance with Section 7.L. of the Order on Consent. As such, the Draft Remedial Investigation Report is expected to be submitted to DEQ by September 19, 2000.

If you should have any questions regarding this matter, please feel free to call me at 503-229-6900.

Sincerely,

A handwritten signature in cursive script, reading "Jill Kiernan".

Jill Kiernan, P.E.
Senior Project Engineer

cc Rich Reis, IT Corp.
Mavis Kent, DEQ/NWR
Bruce Stirling, DEQ/NWR
Dave St. Louis, DEQ/NWR



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

November 29, 2000

Gerald O'Regan
Chevron USA Products Company
6001 Bollinger Canyon Road
P.O. Box 5004
San Ramon, CA 94583-0804

Martin Cramer
Tosco Refining Company
P.O. Box 76
Portland, OR 97207

Frank Fossati
Shell Oil Products Company
P.O. Box 219
Lake Forest, CA 92630-0219

Eric Conard
GATX
1363 North Gaffey Street
San Pedro, CA 90731

RE: Willbridge Bulk Fuel Facilities
DEQ Approval of the October 10, 2000, Remedial Investigation Work Plan

Gentlemen:

DEQ is pleased to provide approval of the report, *Remedial Investigation Work Plan for the Willbridge Facility, Portland, Oregon*, dated October 10, 2000. This revised work plan sufficiently addresses DEQ's comments on previous draft versions of this work plan and has incorporated the changes requested by DEQ.

DEQ looks forward to submittal of the Draft Remedial Investigation Report and completion of the remedial investigation phase of work.

If you should have any questions regarding the project, please feel free to call me at 503-229-6900.

Sincerely,

Jill Kiernan, P.E.
Senior Project Engineer

cc Rich Reis, IT Corp.
Kelly Kline, KHM
Dave St. Louis, DEQ/NWR





Oregon

John A. Kitzhaber, M.D., Governor

Parsons Tm

fee: #56--

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with the local county offices for recording fee information. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: 41476

Start Card Number: 136227

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00 E 18

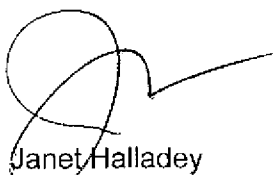
County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please contact me at (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,



Janet Halladey
Well Identification Program
Enforcement Section

Enclosure

Port of Portland owns 1 parcel & Tosco the other
Legal description: —
instrument # 97088026 - (Tosco's #)
instrument # — - 2 wells
Total: #56--

COP0019174

Rev: 10/2000

RESPONSIBLE FOR PAYMENT: Generator <input checked="" type="checkbox"/> Consultant <input type="checkbox"/>	TPS TECHNOLOGIES INC. PORTLAND, OREGON SOIL DATA AND CERTIFICATION SHEET	TODAY'S DATE: 12/18/00 DELIVERY DATE:
--	---	--

Generator/Property Owner: <u>TOSCO REFINING CO.</u> Mailing Address: <u>P.O. Box 76, Astoria, OR 97103</u> Contact: <u>MARTIN CRAMER</u> Phone: <u>(503) 248-1517</u> Fax: <u>(503) 248-1592</u>	Consultant/Engineering Firm: Address: <u>0922</u> Contact: <u>CORRESP.</u> Phone: Fax:
---	---

Testing Laboratory (include contact person and phone number): <u>NORTH CREEK ANALYTICAL</u> <u>CRYSTAL BUCKHORN (503) 906-9200</u>	Sampling Procedures and Location (attach additional sheets and map): <u>REPORT WILL BE SENT UNDER SEPARATE</u> <u>COVER</u> (site address should be included on lab results)
---	--

Site History: (Attach additional sheet if necessary) Type of contamination (gas, diesel, used oil, etc.): KEROSENE
Past activities at site: PETROLEUM PRODUCT STORAGE & TRANSFER Estimated quantity in tons: 175
How did soil contamination occur? KEROSENE (DIESEL #1) SPILL IN TANK FARM
Site Name/Address w/ zip code TOSCO PORTLAND TERMINAL/5528 NW DEANE AVE, ASTORIA, OR 97103

Please check appropriate box below and attach all required analytical reports, including test methodologies used. Unless otherwise noted, composite samples should be collected with the following frequency: One (1) sample for 250 tons or less; two (2) samples for 500 tons or less, and one (1) additional sample for each 500 additional tons.

<input type="checkbox"/> I/We certify that the soil referenced herein is contaminated solely by virgin petroleum products from leaking underground storage tanks(s). Attach analysis for the following: 1. Total Petroleum Hydrocarbons ID Test (Method TPH-HCID) (may be omitted if Residential LUST) 2. If Method TPH-HCID shows gasoline is present, perform a Total Petroleum Hydrocarbons test for gasoline (Method TPH-G or EPA Method 8020) 3. If Method TPH-HCID shows that diesel, heating oil, and/or Bunker C is present, perform Total Petroleum Hydrocarbons test for fuel oils (EPA Method 418.1 Modified or Method NWTPH-DX) 4. If Method TPH-HCID shows that both gasoline and diesel or heating oils are present, both types of TPH must be performed	<input checked="" type="checkbox"/> I certify that some or all of the contaminants in the soil referenced herein is waste oil or some other non-virgin petroleum product, <u>or virgin petroleum or</u> hydrocarbon product from something other than a leaking underground storage tank. Attach analysis for the following: 1. If gasoline is present, perform Method TPH-G or EPA Method 8020** 2. If diesel, heating oil or other heavy hydrocarbons are present, perform EPA Method 418.1 Modified or Method NWTPH-DX. 3. Volatile Organic Compounds (EPA Methods 9020 or 9253). If TOX levels are >100 ppm, additional testing using EPA Methods 8010 or 8260 as well as Method 8080, 8081 or 8082 for PCBs shall be utilized to assist in the hazardous waste determination. 4. Total metals concentration for eight (8) RCRA metals*** a) arsenic c) cadmium e) lead g) selenium b) barium d) chromium f) mercury h) silver 5. Additional analytical data as required. ** If elevated benzene levels are detected, an additional TCLP benzene test may be required in an above-ground soil or leak situation. *** If elevated metal levels are detected, an additional TCLP test may be required.
---	--

No soils referenced herein may be delivered until this certificate is received and approved by TPST, and TPST issues manifest(s) and assigns a delivery date. If any soils delivered to TPST are found to be "hazardous waste" pursuant to federal or state regulations, Client shall be solely responsible for their removal. If Client fails to remove such soils, TPST, acting as Client's agent, may arrange for such removal at Client's expense.

This is a complete and accurate description of the soil referenced herein; no deliberate or willful omissions have been made and all known or suspected hazards have been disclosed herein. I/We further certify that the soil is not "Hazardous" as defined by the U.S. Department of Transportation (DOT), US Environmental Protection Agency (EPA), State of Oregon, or local regulations. I/We further certify that the soils referenced herein contain no free liquids. All required analytical reports with proper address information are attached.

Generator/Owner Authorized Signatory: <u>Martin Cramer</u>	Date: <u>12/18/00</u>
Print Name: <u>MARTIN CRAMER</u>	Title: <u>PROJECT MANAGER</u>
Engineer/Environmental Firm Authorized Signatory: _____	Date: _____
Print Name: _____	Title: _____

COP0019175



TOSCO

Date: December 18, 2000

Time: 2:28 PM

Number of Pages Including Cover Sheet: 2

To: DOUG LANGE/JOHN BARBAY

TPS
Portland, OR

From: MARTY CRAMER

Tosco Portland Terminal
5528 NW Doane Ave.
Portland, OR 97210

Phone:

Fax: 503-240-1712

Phone: 503-248-1517

Fax: 503-248-1592

REMARKS

☐ Urgent

☐ For Your Review

☐ Reply ASAP

☐ Please Comment

Doug:

Per our conversation, here is the Portland TPS Soil Data and Certification Sheet. I will send a copy of the spill report tomorrow. The invoice code number that should be used for this project is 350608 and, if possible, we would like to receive the invoice next week so it will hit this year's budget. Please let me know if that is a problem for you to do that.

If you have any questions or comments, please feel free to contact me at the above number.

Thanks,

Marty

COP0019176



TOSCO

Date: December 20, 2000

Time: 6:42 AM

Number of Pages Including Cover Sheet: 7

To: SHARON

TPS

Portland, OR

From: MARTY CRAMER

Tosco Portland Terminal

5528 NW Doane Ave

Portland, OR 97210

Phone:

Fax: 503-240-1712

Phone: 503-248-1517

Fax: 503-248-1592

REMARKS

☐ Urgent

☐ For Your Review

☐ Reply ASAP

☐ Please Comment

Sharon:

Per your request, here are the six signed manifests you faxed yesterday for the soil from the Tosco Portland Terminal. Also, the correct name of the company for future reference is Tosco Refining Company. Tosco Distribution Company is no more and has been merged with Tosco Refining.

If you have any questions or comments, please feel free to contact me at the above number.

Thanks,

Marty

COP0019177

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment: Responsible for Payment: Generator Transporter Truck #: Facility #: Given by TPS: Lead #

Generator's Name and Billing Address: TOSCO DISTRIBUTION CO.
5528 NW DOANE AVENUE
PORTLAND, OR 97210
Generator's Phone #: (503) 248-1517
Person to Contact: MARTY CRAMER
FAX #: (503) 248-1592
Generator's US EPA ID No. 020 087458196
Customer Account Number with TPS: 1003586

Consultant's Name and Billing Address:
Consultant's Phone #:
Person to Contact:
FAX #:
Customer Account Number with TPS:

Generation Site (Transport from): (name & address)
TOSCO/PORTLAND TERMINAL
5528 NW DOANE AVE.
PORTLAND, OR 97210
Site Phone #: (503) 248-1517
Person to Contact: MARY CRAMER
FAX #: (503) -
STEX Levels
TTH Levels
AVG. Levels

Designated Facility (Transport to): (name & address)
TEST SOIL RECYCLERS OF OREGON
9333 N HARBOR GATE STREET
PORTLAND, OR 97203
Facility Phone #: 503-735-9525
Person to Contact: SHARON QUAST
FAX #: 503-240-1712
Facility Permit Numbers

Transporter Name and Mailing Address:
Transporter's Phone #:
Person to Contact:
FAX #:
Transporter's US EPA ID No.:
Transporter's DOT No.:
Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: Martin Cramer 12 20 00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Signature and date: Month Day Year

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: SHARON QUAST / JOHN BARBAY Signature and date:

COP0019178

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: Generator	Transporter Truck #:	Facility #:	Given by TPS:	Load #:
			A09	05745	001

Generator's Name and Billing Address: TOSCO DISTRIBUTION CO. 5528 NW DOANE AVENUE PORTLAND, OR 97210	Generator's Phone #: (503) 248-1517	Generator's US EPA ID No. ORD 087458196
	Person to Contact: MARTY CRAMER	
	FAX #: (503) 248-1592	Customer Account Number with TPS: 1003586

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX #:	Customer Account Number with TPS:

Generation Site (Transport from): (name & address) TOSCO/PORTLAND TERMINAL 5528 NW DOANE AVE. PORTLAND, OR 97210	Site Phone #: (503) 248-1517	BTEX Levels
	Person to Contact: MARY CRAMER	TPH Levels
	FAX #: (503) -	AVG. Levels

Designated Facility (Transport to): (name & address) TPST SOIL RECYCLERS OF OREGON 9333 N HARBORGATE STREET PORTLAND, OR 97203	Facility Phone #: 503-735-9525	Facility Permit Numbers
	Person to Contact: SHARON QUAST	
	FAX #: 503-240-1712	

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX #:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 25% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 25% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

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Print or Type Name:	Generator <input checked="" type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month:	Day:	Year:
MARTIN CRAMER		<i>Martin Cramer</i>	12	20	00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month:	Day:	Year:

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
SHARON QUAST / JOHN BARBAY	

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment: Responsible for Payment: Generator: Transporter Truck #: Facility #: Given by TPS: 1A09 09745 Load #: 005

Generator's Name and Billing Address:
TOSCO DISTRIBUTION CO.
5528 NW DOANE AVENUE
PORTLAND, OR 97210

Generator's Phone #:
(503) 248-1517

Generator's US EPA ID No.
ORD 0874558196

Person to Contact:
MARTY CRAMER

FAX #:
(503) 248-1592

Customer Account Number with TPS:
1003586

Consultant's Name and Billing Address:

Consultant's Phone #:

Person to Contact:

FAX #:

Customer Account Number with TPS:

Generation Site (Transport from): (name & address)
TOSCO/PORTLAND TERMINAL
5528 NW DOANE AVE.
PORTLAND, OR 97210

Site Phone #:
(503) 248-1517

BTEX
Levels

Person to Contact:
MARY CRAMER

TPH
Levels

FAX #:
(503) -

AVG.
Levels

Designated Facility (Transport to): (name & address)
TPST SOIL RECYCLERS OF OREGON
9333 N HARBORGATE STREET
PORTLAND, OR 97203

Facility Phone #:
503-735-9525

Facility Permit Numbers

Person to Contact:
SHARON QUAST

FAX #:
503-240-1712

Transporter Name and Mailing Address:

Transporter's Phone #:

Transporter's US EPA ID No.:

Person to Contact:

Transporter's DOT No.:

FAX #:

Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

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Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ☐ Signature and date: MARTY CRAMER Month: 12 Day: 20 Year: 00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Signature and date: Month: Day: Year:

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: SHARON QUAST / JOHN BARBAY Signature and date: Month: Day: Year:

COP0019180

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest

Date of Shipment:	Responsible for Payment: Generator	Transporter Truck #:	Facility #: A09	Given by TPS: 05745	Load #: 006
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Generator's Name and Billing Address: TOSCO DISTRIBUTION CO. 5528 NW DOANE AVENUE PORTLAND, OR 97210	Generator's Phone #: (503) 248-1517	Generator's US EPA ID No. ORD 087458196
	Person to Contact: MARTY CRAMER	
	FAX #: (503) 248-1592	Customer Account Number with TPS: 1003586

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX #:	Customer Account Number with TPS:

Generation Site (Transport from): (name & address) TOSCO/PORTLAND TERMINAL 5528 NW DOANE AVE. PORTLAND, OR 97210	Site Phone #: (503) 248-1517	BTX Levels
	Person to Contact: MARY CRAMER	TPH Levels
	FAX #: (503) -	AVG. Levels

Designated Facility (Transport to): (name & address) TPST SOIL RECYCLERS OF OREGON 9333 N HARBOR GATE STREET PORTLAND, OR 97203	Facility Phone #: 503-735-9525	Facility Permit Numbers
	Person to Contact: SHARON QUAST	
	FAX #: 503-240-1712	

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX #:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input checked="" type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

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Print or Type Name:	Generator <input checked="" type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month	Day	Year
MARTY CRAMER		<i>Marty Cramer</i>	12	20	00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
SHARON QUAST / JOHN BARBAY	

Generator and/or Consultant

Transporter

Recycling Facility

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment:	Responsible for Payment: Generator	Transporter Truck #:	Facility #:	Given by TPS:	Load #:
			AO9	05745	004

Generator's Name and Billing Address: TOSCO DISTRIBUTION CO. 5528 NW DOANE AVENUE PORTLAND, OR 97210	Generator's Phone #: (503) 248-1517	Generator's US EPA ID No. 08A087458196
	Person to Contact: MARTY CRAMER	
	FAX #: (503) 248-1592	Customer Account Number with TPS: 1003586

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX #:	Customer Account Number with TPS:

Generation Site (Transport from): (name & address) TOSCO/PORTLAND TERMINAL 5528 NW DOANE AVE. PORTLAND, OR 97210	Site Phone #: (503) 248-1517	BTEX Levels
	Person to Contact: MARY CRAMER	TPH Levels
	FAX #: (503) -	AVG. Levels

Designated Facility (Transport to): (name & address) TPST SOIL RECYCLERS OF OREGON 9333 N HARBORGATE STREET PORTLAND, OR 97203	Facility Phone #: 503-738-9526	Facility Permit Numbers
	Person to Contact: SHARON QUAST	
	FAX #: 503-240-1712	

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX #:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0-10% <input type="checkbox"/> 10-20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator <input checked="" type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month	Day	Year
MARTY CRAMER		<i>Marty Cramer</i>	12	20	00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
SHARON QUAST / JOHN BARBAY	

TPS Technologies Soil Recycling

Non-Hazardous Soils

Manifest

Date of Shipment:	Responsible for Payment: Generator	Transporter Truck #	Facility #	Given by TPS:	Load #
				AO9 05745	003

Generator's Name and Billing Address: TOSCO DISTRIBUTION CO. 5528 NW DOANE AVENUE PORTLAND, OR 97210	Generator's Phone #: (503) 248-1517	Generator's US EPA ID No. UR0087458196
	Person to Contact: MARTY CRAMER	
	FAX #: (503) 248-1592	Customer Account Number with TPS: 1003586

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX #:	Customer Account Number with TPS:

Generation Site (Transport from): (name & address) TOSCO/PORTLAND TERMINAL 5528 NW DOANE AVE. PORTLAND, OR 97210	Site Phone #: (503) 248-1517	BTEX Levels
	Person to Contact: MARY CRAMER	TPH Levels
	FAX #: (503) -	AVG. Levels

Designated Facility (Transport to): (name & address) TPST SOIL RECYCLERS OF OREGON 9333 N HARBORGATE STREET PORTLAND, OR 97203	Facility Phone #: 503-735-9525	Facility Permit Numbers
	Person to Contact: SHARON QUAST	
	FAX #: 503-240-1712	

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX #:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input checked="" type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					

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Print or Type Name:	Generator <input checked="" type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month Day Year
MARTY CRAMER		<i>[Signature]</i>	12 20 00

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month Day Year

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
SHARON QUAST / JOHN BARBAY	



Tosco Refining Company
A Division of Tosco Corporation
Portland Terminal
5525 Northwest Doane Avenue
Portland, Oregon 97210

January 19, 2001

Mr. Kelly Kline
KHM Environmental
123 NE 3rd Street
Portland, OR 97232

Re: Pile Installation at Doane Street Outfall

Dear Kelly:

I apologize for requesting another accounting favor from KHM but a while back Tosco, during replacement of pilings at our dock, installed two new pilings at the outfall. This was done to facilitate better separation of the containment booms at the outfall and, consequently, improve the containment of oil seeping out from under the storm drain pipe. Gerald at Chevron was unavailable at the time to obtain his consensus prior to installing the pilings so I went ahead and authorized it and later paid the portion of the invoice related to those two pilings.

In subsequent conversations with Gerald, he agreed to split the costs of the piling installations as it was related to the outfall. Therefore, Gerald and I are requesting that KHM bill Chevron for approximately \$850 in services that would otherwise have been billed to Tosco to compensate for Tosco's payment for the piling installations (see attached invoice). As before, Tosco will require documentation that this has occurred for our files.

Thanks for your assistance in this and if you have any questions or require additional information, please feel free to contact me at (503) 248-1517.

Sincerely,

A handwritten signature in black ink, appearing to read 'Martin Cramer'.

Martin Cramer
Project Manager, Remediation

File: Portland/Remediation/Pilinginvltr.doc

Enclosure

cc: Gerald O'Regan
Chevron Products Company

COP0019184



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with the local county offices for recording fee information. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 36858	Well log Number: MULT 63393	Start Card Number: 138600
--------------------------	-----------------------------	---------------------------

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072


Well Location: 1.00 N 1.00E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely, *Megan Bowen*


Well Identification Program
Enforcement Section



COP0019185



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 36856	Well log Number: MULT 63397	Start Card Number: 138603
--------------------------	-----------------------------	---------------------------

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely, *Megan Bowen*

Well Identification Program
Enforcement Section

COP0019186



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

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As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with the local county offices for recording fee information. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 36857	Well log Number: MULT 63395	Start Card Number: 138602
--------------------------	-----------------------------	---------------------------

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely, *Megan Bowen*

Well Identification Program
Enforcement Section



COP0019187



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

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As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 36855	Well log Number: MULT 63396	Start Card Number: 138604
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Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely, *Megan Bower*

Well Identification Program
Enforcement Section

COP0019188



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 32063	Well log Number: MULT 63394	Start Card Number: 138601
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Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Megan Bowen
[Signature]

Well Identification Program
Enforcement Section

COP0019189



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: 45860

Start Card Number: 138131

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00 E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900



COP0019190



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: 45859

Start Card Number: 138130

Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 85072

Well Location: 1.00 N 1.00 E 18

County: MULT

Street of Well: 5528 NW DOANE AVE, PORTLAND

Tax-lot: 900

If you have questions please contact me at (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section

Enclosure

COP0019191



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

5/14/2001

Willbridge(Tosco)
Martin Cramer
5528 NW Doane Ave
Portland, OR 97210-

Dear Martin Cramer:

DEQ has signed a Memorandum of Agreement (MOU) with EPA, natural resource trustee agencies and six Native American Tribes that coordinates the efforts of the parties at the Portland Harbor Superfund site. A copy of that MOU is attached.

One of the issues addressed in the MOU is the identification and management of and human remains (cultural resources) at upland cleanup sites. Cultural resources can include archeological and historical resources such as ceremonial artifacts, traditional cultural properties, objects at burial sites, or human remains.

DEQ is currently working with EPA and the six Native American Tribes on the most efficient and effective way to address cultural resource issues during Portland Harbor upland and in-water work. In the meantime, we want to make sure that you are aware that:

- There are state and federal laws that may apply to cultural resources at Portland Harbor upland sites; and
- DEQ will be working with the EPA and the Tribes to determine how cultural resources will be identified and protected as we move forward on upland sites.

The laws that may apply to your site include:

- National Historic Preservation Act of 1966, 16 USC 470 et seq.,
- Archeological Resources Protection Act, 16 USC 470aa et seq.,
- Native American Graves Protection and Repatriation Act of 1990, 25 USC 3001 et seq.,
- Oregon Laws Protecting Indian Graves, ORS 97.740 et seq., or
- Archeological Site Permit Requirements, ORS 358.905 et seq.

For more information about the requirements under these laws, contact the State Historic Preservation Office (SHPO) at 503-378-4168. Information on the state laws can be found at SHPO website: http://www.prd.state.or.us/laws_shpo.html.



According to Oregon law, the property owner or operator is responsible for taking appropriate action and making appropriate notifications if cultural resources are located during activity at a site. Information on how to proceed if human remains are found is outlined in an attached legislative reminder from the Oregon Legislative Commission on Indian Services.

If cultural resources are discovered during investigation or cleanup activities, work should stop immediately in the vicinity of the find. Please keep the discovery of any found or suspected human remains, other cultural items, and potential historic properties confidential, including but not limited to, refraining from contacting the media. Confidentiality of cultural resources is of great importance to the Tribes, and will help ensure that the appropriate Tribes are notified of the discovery, and have the opportunity to properly safeguard and manage the items.

If cultural resources are discovered during any site activity, please contact Kim Cox, Portland Harbor Project Coordinator, at 503-229-6590 within 24 hours of the discovery.

We will keep you informed as more specific guidance regarding Portland Harbor cultural resources is developed. If you have any questions, please contact Kim Cox at DEQ.

Sincerely,

A handwritten signature in cursive script, reading "Jill Kiernan".

Jill Kiernan
DEQ Project Manager
Voluntary Cleanup/Portland Harbor



Office of
Development
Land Use

1800 SW 10th Avenue, Suite 6000
Portland, Oregon 97201
Telephone: (503) 823-7700
TDD: (503) 823-6868
FAX: (503) 823-7800
www.ci.portland.or.us

Date: August 14, 2001

To: Tosco Corporation
Attn: Marty Cramer
5528 NW Doane Avenue
Portland OR 97210

Re: LUR 01-00517 GW

Post-It® Fax Note		7671	
To	Sun Noble	Date	8/16/01
Co./Dept.		From	Duncan Brown
Phone #		Co.	
Fax #	3-5309	Phone #	3-7841
		Fax #	

0922
ACCEPT
0022

We received your application for a Greenway Reviews at 5528 NW Doane on August 1, 2001. In order to continue to process your application, we need additional information. Until we receive this information, your application cannot be considered complete. Please note that your application has been reviewed only to determine if all required materials have been submitted. A full review of how your proposal addresses the applicable criteria will occur after all material is received.

The following materials must be submitted in order for your application to be complete:

Site Description

It is unclear which parcels are under the ownership and control of the applicant. In order for us to correctly identify the project area and send the required public notices to the adjacent property owners, please provide a site plan of the entire project site and include all property owners and the state identification number for each parcel.

Development Plans

To more fully understand the development proposal, some additional information is needed on the development plans. We also need to have a graphic representation of the design and construction practices that will be implemented to show how impacts to the area will be avoided, or minimized and mitigated. It is often helpful to provide information on separate plans for greater clarity, so I've outlined a list of the information that will be useful for each different plan or set of plans:

- *Existing Conditions Plan*, showing all existing development on the site, including buildings, parking, landscaping, and exterior storage, as well as development on adjacent lands or waterways within 50 feet of the site.
- *Proposed Development Plan*, showing all proposed development; also identify all areas to be demolished.
- *Site Utility Plan*, showing the existing and proposed drainage and stormwater systems, including any pretreatment or changes to the status of the existing industrial waste permit.
- *Construction Management Plans*, to include the following:
 - Grading Plan* (2-foot contour intervals) to demonstrate areas of impact and the type and quantity of all excavation and fill materials
 - Geotechnical Report* to address grading, and the sheet piling and installation methods. Please identify if and where there will be in-water and/or upland construction staging areas.
 - Erosion Control Plan* to address temporary and permanent erosion control elements and the timing of their installation and removal
 - Tree Protection Plan* to protect/replace any trees within construction area
 - Construction Schedule* to describe the timing, duration and sequence of construction
 - Stockpiling and storage areas* to show the location of all materials, equipment and vehicles used during the construction activities

Greenway Issues

It would be helpful to have a better sense of the project and the sequence of development to more fully assess how the Greenway regulations apply to the current proposal, as well as additional details about the potential impacts the project could have on the surrounding area.

- Describe how the proposed development is river-dependent or related. Explain how the proposed construction methods that will be employed to avoid, or minimize and mitigate impacts to these areas.
- Identify the ordinary low water and ordinary high water line, top of bank, and 25 foot Greenway Setback on all development plans.

Development Standards

Some of the applicable development standards do not appear to have been addressed on the site plan or in the project narrative, so I cannot determine if these standards are being met. It is valuable to identify as many of these issues at this time, in order to avoid delays and subsequent reviews, at the time of permits. Please review the list below and provide updated information on the development plans, and in the narrative, if appropriate.

- Address how the following development standards are being or will be met through nonconforming upgrades: screening (33.140.235), exterior storage (33.140.245), and parking, including bicycle and loading, (Table 266-2/33.266.130). Please be advised that nonconforming development must comply with the regulations of the Nonconforming Situation and Greenway chapters (33.258 and 33.440).

Please revise the development plans and project narrative, as necessary, to respond to these issues. Please ensure that each revised plan includes dimensions of the new development and a measurable scale. Please submit two full scale and two 8.5 x 11 inch copies of each new or revised development plan and two copies of all new written materials.

The requested information or a written request for an extension to the application deadline must be submitted by **August 31, 2001**. An extension will allow you up to 180 days beyond the application date or until **January 27, 2001**, to complete your application. We will begin processing your application once it is complete.

If you do not provide the information needed to complete your application within the 180-day period, your application will be voided (33.730.060.A3, Time Extensions).

Please write or call me at (503) 823-5868 if you have any questions. I look forward to working with you and will notify you when your application is considered complete.

cc: KHM Environmental
Application Case File



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 51435	Well log Number: MULT 64449	Start Card Number: 135171
---------------------------------	------------------------------------	----------------------------------

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section

COP0019196



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 51436	Well log Number: MULT 64450	Start Card Number: 135172
---------------------------------	------------------------------------	----------------------------------

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

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Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
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Salem, OR 97301-4172
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FAX (503) 378-8130
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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 51438

Well log Number: MULT 64452

Start Card Number:

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section

COP0019198



Oregon

John A. Kitzhaber, M.D., Governor

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Well Tag Number: L 51434

Well log Number: MULT 64448

Start Card Number: 135170

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section

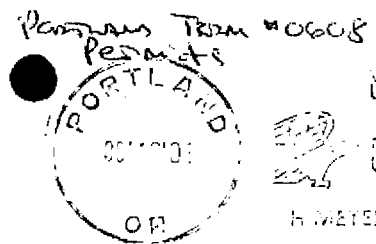
COP0019199



CITY OF PORTLAND
OFFICE OF PLANNING AND DEVELOPMENT REVIEW
1900 SW Fourth Avenue, Suite 5000
Portland, OR 97201

P524

Land Use Review Notice Enclosed
Case # 01-00517GW



APPLICANT
TOSCO CORP
MARTH KRAMER
5528 NW DOANE AVE
PORTLAND OR 97210

COP0019200



**Office of Planning
and
Development Review
Land Use Review Division**

900 SW Fourth Ave., Suite 5000
Portland, Oregon 97201
Telephone: (503) 823-7300
TDD: (503) 823-6868
FAX: (503) 823-5630
www.ci.portland.or.us

NOTICE OF A TYPE II DECISION ON A PROPOSAL IN YOUR NEIGHBORHOOD

Date: October 12, 2001
To: Interested Person
From: Kate Green, Land Use Review
(503) 823-5868

The Office of Planning and Development Review has **approved** a proposal in your neighborhood. The reasons for the decision are included in this notice. If you disagree with the decision, you can appeal it and request a public hearing. Information on how to appeal this decision is listed at the end of this notice.

CASE FILE NUMBER: LUR 01-00517 GW

I. GENERAL INFORMATION

Applicant: Marty Kramer
Tosco Corporation
5528 NW Doane Avenue
Portland, OR 97210

R. Dutton
Tosco Corporation
PO Box 52085
Phoenix, AZ 85072-2085

Co-Applicant: Gerald O'Regan
Chevron Products Company
PO Box 6004
San Ramon, CA 94583

Owner: Port of Portland
121 NW Everett
Portland, OR 97209

Representative: Kelly A. Kline, KHM Environmental
123 NE Third Avenue
Portland, OR 97232

503-233-4068

Site Address: 5528 NW Doane Avenue
Legal Description: Sect 18 1N 1E; TL 900
Tax Account: [REDACTED]
State ID No.: 1N1E18C 900
Quarter Section: 2423

Neighborhood: Northwest Industrial, contact Linda Wakefield at 503-323-2732.
Business District: Northwest Industrial, contact Kent Studebaker at 503-227-6638.
District Coalition: Neighbors West/Northwest, contact David Allred at 503-223-3331.
Zoning: Heavy Industrial (IH)
River Industrial Greenway (i)
Case Type: Greenway Review (GW)
Procedure: **Type II Procedure**

This application was determined to be complete on September 18, 2001. On October 1, 2001, the applicant provided additional review materials and extended the review period by 10 days.

PROPOSAL

The applicant proposes to construct a sheet pile cutoff wall to isolate contaminated groundwater from seeping into the Willamette River. The wall will consist of steel sheets that will be vibrated into place with a trackhoe and hammer attachment. A concrete collar is also proposed to be installed around an existing 60-inch stormwater outfall that will be incorporated into the cutoff

wall. Recovery and monitoring wells will also be installed, within the confinement area, as part of the ground water clean-up efforts. The wall is proposed to be constructed within and riverward of the Greenway Setback Area. The top of the wall will extend to the ordinary high water line (16 foot elevation/City of Portland datum). Approximately 78 cubic yards of sand and rock will be placed riverward of the wall and vegetation is proposed to be installed landward of the wall. All new development and alterations to existing development in the Greenway zone must be evaluated through a Greenway Review (33.440.310).

APPROVAL CRITERIA CITATION

In order to be approved, this proposal must comply with the following: Greenway Approval Criteria, 33.440.350 A through G.

II. ANALYSIS

Site and Vicinity: The project site consists of a 3 acre riverfront parcel, where the new development is proposed to be located around an existing City of Portland stormwater outfall, and a 19 acre parcel across the street on NW Front Avenue. The riverfront property is developed with a dock and pipelines which are used to transport fuels to the storage tanks (tank farm) on the larger parcel across the street, as well as the existing outfall pipe. On the landward side of NW Front, the site is developed with storage tanks, warehouses, accessory buildings and rail spur lines, for the petroleum and petroleum-related bulk storage tanks that make up the balance of the site. These properties are within an area called the Willbridge Terminal, in the Northwest Industrial District, between NW St. Helens Road and the Willamette River. The Willbridge Terminal is a conglomerate of petroleum companies, with shared docks, pipes and tank facilities. The Willbridge Terminal is within an area that has recently been listed as a Superfund Site, with the Environmental Protection Agency (EPA), and is under evaluation (Site #1549) for environmental clean-up efforts with the Department of Environmental Quality (DEQ).

In addition to the outfall on the site, there are several other nearby outfalls, which drain into the Willamette River. One of these serves Saltzman Creek, which is directly downstream from the proposed construction area, in a designated Rank II habitat area. The entire Willamette River provides habitat for a variety of wildlife species, several of which have recently been listed as threatened or endangered.

A residential zone is located approximately 800 feet from the site, across NW St. Helens Road. The adjacent properties are primarily industrial in use, including other tank farms, and petroleum loading and distribution facilities, within the Willbridge Terminal.

Zoning: This site is zoned **Heavy Industrial (IH)** with **River Industrial Greenway (i)** overlay zoning. The IH zone is one of the three zones that implement the Industrial Sanctuary map designation of the Comprehensive Plan. This zone provides areas where all kinds of industries may locate including those not desirable in other zones due to their objectionable impacts or appearance. The development standards are the minimum necessary to assure safe, functional, efficient, and environmentally sound development.

The **River Industrial Greenway (i)** zone encourages and promotes the development of river-dependent and river-related industries which strengthen the economic viability of Portland as a marine shipping and industrial harbor, while preserving and enhancing the riparian habitat and providing public access where practical.

Though the entire site is subject to all applicable regulations, only the portion of the site where the construction is to occur is within the River Industrial Greenway zone, so that area is the primary focus of this review. Any alterations to existing development and excavations or fills, within 75 feet of the riverbank, are subject to Greenway Review (33.440.310.B and D).

Additionally, any development within and riverward of the Greenway Setback must be river-dependent or river-related. The Zoning Code defines these terms as follows:

River-Dependent. *A use which can be carried out only on, in, or adjacent to a river because it requires access to the river for waterborne transportation or recreation. River-dependent also includes development, which by its nature, can be built only on, in, or over a river. Bridges supported by piers or pillars, as opposed to fill, are river-dependent development.*

River-Related. A use or development which is not directly dependent upon access to a water body but which provides goods or services that are directly associated with river-dependent land or waterway use or development, and which, if not located adjacent to water, would result in a public loss of quality in the goods or services offered. Residences (including houseboats), parking areas, spoil and dump sites, roads and highways, restaurants, businesses, factories, and recreational vehicle parks are not generally considered dependent or related to water. Recreational trails and viewpoints adjacent to the river are river-related development. Bridge exit and entrance ramps supported by piers or pillars, as opposed to fill, are river-related development.

Walls and other structures, such as those proposed, are not generally considered river-dependent or river-related development, unless they are part of a dock or bridge that must have access next to or into the river. In this situation, because prior remediation actions landward of the Greenway Setback have had limited success, the applicant has now prepared a clean-up program that calls for the capture and extraction of contaminants, which are located in and around an existing storm drain that extends into and riverward of the Greenway Setback Area. In order to accomplish this clean-up action, the applicant has designed a wall system to be built around the existing pipe and contaminants. The containment wall system will include extraction wells to remove contaminants and fill materials will be installed in locations where contaminated gravel and soil must be excavated around the pipe. Because of these unique circumstances, the proposed development must necessarily also be located within and riverward of the Greenway Setback Area. Since the containment wall will control the flow of petroleum hydrocarbons into the river, this will provide a public benefit by improving the quality of the Willamette River, which is consistent with the definition of *river-related* development. Therefore, the proposed development, within and riverward of the Greenway Setback Area, can be allowed, if approved through this Greenway Review.

Land Use History: City records indicate that prior land use reviews include:

- GP 17-83: Greenway Permit for concrete float/boom system for oil spill containment; approved.
- GP 27-89: Greenway Permit for truck repair building; approved with conditions.
- LUR 00-00003 GW HS: Greenway and Hazardous Substance Review to install an intercompany manifold pipeline; approved with conditions.
- LUR 00-00656 GW HS: Greenway and Hazardous Substance Review to install a marine vapor recovery system; approved with conditions.

Agency Review: A "Notice of Proposal in Your Neighborhood" was mailed September 21, 2001. The following Bureaus have responded with these comments:

Portland Transportation: No objections

Fire Bureau: No objections

Bureau of Environmental Services: At time of building permit application, the applicant will need to address BES requirements for work involving the existing storm drain, and source control issues. BES also noted comments about the timing and construction practices and treatment of the bank needing to be performed in a manner that is protective of the river and shoreline environment.

Urban Forestry: Street trees will be required per Title 20.40.

Neighborhood Review: A Notice of Proposal in Your Neighborhood was mailed on September 21, 2001. No written responses have been received.

ZONING CODE APPROVAL CRITERIA

33.440.350—Greenway Approval Criteria:

- A. Generally:** The approval criteria for a greenway review have been divided by location or situation. The divisions are not exclusive; a proposal must comply with all of the approval criteria which apply to the site. Requests for a greenway review will be approved if the review body finds that the applicant has shown that all of the appropriate approval criteria are met.

Findings: The proposal is consistent with or will be able to meet the applicable approval criteria, as outlined in the findings below. Therefore, this criterion is met.

- B. For all greenway reviews.** The Willamette Greenway Design Guidelines must be met for all greenway reviews. The Willamette Greenway Design Guidelines address the quality of the environment along the river and require public and private developments to complement and enhance the riverbank area. The Design Guidelines are grouped in a series of eight Issues. A summary of these Issues and the associated Design Guidelines is provided in the findings discussed below.

Each of the Design Guidelines must be met or an alternative means of meeting the guideline must be approved. A complete description of the Design Guidelines and their applicability is provided in pages 45-81 in the *Willamette Greenway Plan*.

Issue A. Relationship of Structures to the Greenway Setback Area: These guidelines call for complementary design and orientation of structures so that the greenway setback area is enhanced:

1. Structure Design
2. Structure Alignment

Findings: The applicant states that, based on site evaluations, the rock bed under the existing storm sewer pipe is providing a conduit for contaminants to travel from the site to the river. In order to eliminate this route of transmission, the applicant proposes to erect a subsurface containment facility around the existing storm drain and extract the contamination, with recovery wells. The location of the existing pipe and extent of the contamination are the guiding factors for the design and alignment of the proposed development.

Though nearly the entire containment wall system will be located within and riverward of the Greenway Setback Area, only the concrete collar and rock fill proposed around the existing storm sewer pipe will be visible above grade. Because this area of the bank has been occupied by a storm sewer pipe and rock rubble, since 1980, the proposed development is not expected to significantly alter the general appearance of the Greenway Setback Area. Provided the bank and landscape treatments meet the guidelines in Issues C, D and E, below, it is likely that the final appearance of the Greenway Setback Area will ultimately be enhanced with the removal of the contamination and the installation of new plantings around the pipeline and wall system. Therefore, these guidelines are met.

In addition to meeting these Design Guidelines, which address the location and alignment of structures along the shoreline, BES has noted that since the proposed wall structure will connect to portions of an existing city storm drain some requirements for easements will be made at the time of building permits, as follows:

Applicant must submit for BES approval, or re-recording of new sewer easements with encroachments, a detailed construction plan for encroachments and/or all work to be done in the easement area shall be provided at the time of the public works permit application. The plans should include the location, depth, and material of any foundation structure or pier blocks. Engineered calculations may be required for review by BES.

The easement for the 60" CSP pipe regarding the responsibility of maintaining and repair to the proposed concrete wall and the 60" CSP will be reviewed during the public works permitting process.

Issue B. Public Access: This issue "applies to all but river-dependent and river-related industrial use applications for Greenway Approval, when the Greenway Trail is shown on the property in the *Willamette Greenway Plan*." These guidelines call for integration of the Greenway Trail into new development, as well as the provision of features such as view points, plazas, or view corridors:

1. Public Access
2. Separation and Screening
3. Signage
4. Access to the Water's Edge

Findings: The project site is used for an industrial operation and the Greenway Trail is not designated on this property; therefore, these guidelines are not applicable.

Issue C. Natural Riverbank and Riparian Habitat: This issue “applies to situations where the river bank is in a natural state, or has significant wildlife habitat, as determined by the wildlife habitat inventory.” These guidelines call for the preservation and enhancement of natural banks and areas with riparian habitat:

1. Natural Riverbanks
2. Riparian Habitat

Findings: Though the site received a low habitat ranking (*Lower Willamette River Wildlife Habitat Inventory*, Site 15.6A), due to the heavy industrial development on the uplands, the site was recently planted with native vegetation (per LUR 00-00003 GW HS), which has helped to improve the appearance and potential habitat values of the shoreline.

Additionally, just downstream of the site, there are two Rank II habitat areas (Site 15.5A and 15.3A) that provide significant riparian values. One (Site 15.5A) is noted as a broad tidal mudflat with an emergent wetland entering the river via a culvert. The mudflat is a good shorebird habitat and existing vegetation provides food and cover for the shorebirds. The other (Site 15.3A) consists of a sandy beach beneath the Burlington Northern railbridge. There are several streams that empty into the river at this location. This area is noted for its rarity of habitat and its scenic qualities, including an emergent wetland and cottonwood and willow trees.

Because the proposed containment wall is intended to halt the migration of contamination into the river, the general habitat value of the site and surrounding area should be greatly improved. Additionally, the proposed construction area will be isolated from the adjacent Rank II habitat sites, so the new development will not likely have any detrimental impacts on those areas.

However, approximately 80 cubic yards of rock and riprap are proposed on the shoreline to help stabilize the containment wall and dissipate the water exiting the storm drain, and the proposed construction activities will require the removal of the recently installed plantings on the riverbank. These actions could be detrimental to the habitat values of the shoreline, if measures are not taken to minimize or mitigate for the impacts from these actions.

Several measures should help to control and minimize disturbances; these include the requirements that the development must comply with the balanced cut and fill, erosion and sediment control and stormwater regulations, prior to issuance of permits. Additionally, the new plantings proposed to replace those removed will need to meet the Greenway Landscaping Standards (33.440.230), which will help to minimize the loss of the current plantings.

Based on the foregoing, these guidelines will be met.

Issue D. Riverbank Stabilization Treatments: This guideline “applies to all applications for Greenway Approval.” This guideline promotes bank treatments for upland developments that conserve riparian habitat to the maximum extent practical:

1. Riverbank Enhancement

Findings: Until new plantings were recently installed on the site, the existing riprap bank provided very limited habitat value and did not enhance the appearance of the riverbank. The construction of the proposed containment wall will necessitate the removal of these new plantings, which could be considered contrary to the intent of this guideline. However, efforts to eliminate and remove the site contaminants will allow for greater opportunities to create an attractive vegetated bank.

To accomplish this, the applicant has indicated that the proposed development has been configured to minimize any above ground structures and to localize fill in only those locations necessary to support the containment wall and allow for adequate water dissipation from the storm drain. The containment wall will be below grade, except where it intersects the outlet of the existing pipe, so this should preserve opportunities to treat the bank in a manner that is supportive of this guideline.

Nevertheless, as noted in the comments from BES: *the proposed planting plan may require additional vegetation to adequately cover all areas disturbed by construction. All disturbed and subsequently planted areas should be mulched with sterile straw and pinned down with jute fabric. The vegetation should not only serve to shade the bank, provide habitat functions, prevent additional erosion, it should also conceal the wall and any other structural installations on the bank.* Since the proposed development will involve structures and riprap along the shoreline, some conditions are warranted to ensure the bank treatment accomplishes the multiple objectives, of stabilizing the bank and enhancing the scenic and vegetated condition of the bank, in a manner consistent with this guideline.

A condition (Condition A) will be required that a **Site Development Permit** must be obtained to demonstrate that the proposed excavation (80 cubic yards) and fill (78 cubic yards) and new development are consistent with Title 24 (flood plain development) and with the erosion and sediment control requirements for the floodplain area, prior to and during the construction activities. Another condition (Condition A-1) will call for a **Final Planting Plan** to be submitted to and approved by OPDR. The Planting Plan must include the type, size, and quantity of all proposed plantings. All plantings must be native plants identified in the *Portland Plant List*. The Planting Plan must reflect the planting scheme shown on the Proposed Greenway Planting Plan (Exhibit C-8) and it must also demonstrate that the Greenway Landscaping Standards (33.440.230) are met for the site's entire river frontage (approximately 300 feet). The approved plantings must be installed and inspected as part of the Site Development Permit.

Overall, since the proposed containment facility will halt the migration of petroleum hydrocarbons into the waterway and remove contamination from the shoreline, this should serve to improve the river environment and replacement plantings will add back habitat value to the area. Provided the noted conditions are implemented, the shoreline will be enhanced in a manner that protects the floodplain and bank along the site's river frontage and this guideline will be met.

Issue E. Landscape Treatments: These guidelines call for landscaping treatments which create a balance between the needs of both human and wildlife populations:

1. Landscape Treatment
2. Grouping of Trees and Shrubs
3. Transition

This issue "applies to all applications for Greenway Approval which are subject to the landscape requirements of the Greenway chapter of Title 33 Planning and Zoning of the Portland Municipal Code."

Findings: As discussed in Issues C and D, above, new plantings are proposed along the project shoreline, adjacent to the industrial operations on this site. These plantings will enhance the riparian function of the shoreline and still allow the use of the docks and other facilities in the operation of the fuel company. As such, this will provide some balance between the human and wildlife needs along this stretch of the river. With the conditions outlined in Issue D, above, these guidelines will be met.

Issue F. Alignment of Greenway Trail: This issue "applies to all applications for Greenway Approval with Greenway Trail shown on the property in the Willamette Greenway Plan." These guidelines give direction in the proper alignment of the greenway trail and call for consideration of habitat protection, the physical features of the site and the necessity of maintaining year-round use of the trail:

1. Year-Round Use
2. Habitat Protection
3. Alignment

Findings: The Greenway Trail is not located on this site; so, these guidelines do not apply.

Issue G. Viewpoints: This issue "applies to all applications for Greenway Approval with a public viewpoint shown on the property in the *Willamette Greenway Plan* and for all

applications proposing to locate a viewpoint on the property. These guidelines provide direction about the features and design of viewpoints, as required at specific locations:

1. Design
2. Facilities
3. Access to Water's Edge
4. Relationship to Trail

Findings: No viewpoints are located or proposed on the project site; therefore, these guidelines do not apply.

Issue H. View Corridors: This issue "applies to all applications for Greenway Approval with a view corridor shown on the property in the *Willamette Greenway Plan*". These guidelines provide guidance in protecting view corridors to the river and adjacent neighborhoods.

1. Right-of-way Protection
2. View Protection
3. Landscape Enhancement

Findings: No designated view corridors are identified in the project area in the *Willamette Greenway Plan*. So these guidelines do not apply.

Summary Findings: The design guidelines in Issues B, F, G and H are not applicable; those in Issues A, C, D and E are met or can be met with the noted conditions. Therefore, overall, this criterion is met.

- C. River frontage lots in the River Industrial Zone:** In the River Industrial Zone, uses that are not river-dependent or river-related may locate on river-frontage lots when the site is found to be unsuitable for river-dependent or river-related uses. Considerations include such constraints as the size or dimensions of the site, distance or isolation from other river-dependent or river-related uses, and inadequate river access for river-dependent uses.

Findings: The riverfront portion of the site has a River Industrial (i) Greenway Designation. This area of the site is used to transport petroleum products via ships and barges on the river; therefore, the existing use is consistent with the purpose of the River Industrial zone and this criterion is not applicable.

- D. Development within the River Natural Zone:** The applicant must show that the proposed development, excavation, or fill within the River Natural zone will not have significant detrimental environmental impacts on the wildlife, wildlife habitat, and scenic qualities of the lands zoned River Natural. The criterion applies to the construction and long-range impacts of the proposal and to any proposed mitigation measures. Excavations and fills are prohibited except in conjunction with approved development or for the purpose of wildlife habitat enhancement, riverbank enhancement, or mitigating significant riverbank erosion.
- E. Development on land within 50 feet of the River Natural Zone:** The applicant must show that the proposed development or fill on land within 50 feet of the River Natural zone will not have a significant detrimental environmental impact on the land in the River Natural zone.

Findings: The nearest area with a River Natural (n) zoning designation is approximately ½ a mile directly across the river, along the bank below the University of Portland. Since no work or development is proposed within or within 50 feet of a River Natural zone, criterion D and E are not applicable.

- F. Development within the Greenway Setback:** The applicant must show that the proposed development or fill within the greenway setback will not have a significant detrimental impact on the Rank I and II wildlife habitat areas on the riverbank.
- G. Development Riverward of the Greenway Setback:** The applicant must show that the proposed development or fill riverward of the greenway setback will comply with all of the following criteria:
1. The proposal will not result in the significant loss of biological productivity in the river;
 2. The riverbank will be protected from wave and wake damage;

3. The proposal will not:
 - a) Restrict boat access to adjacent properties;
 - b) Interfere with the commercial navigational use of the river, including transiting, turning, passing, and berthing movements;
 - c) Interfere with fishing use of the river;
 - d) Significantly add to recreational boating congestion;
4. The request will not significantly interfere with beaches that are open to the public.

Findings: The proposed containment wall and associated development will be located within and riverward of the Greenway Setback, due to the need to isolate and extract contamination that is seeping into the river around an existing storm drain on the shore.

As discussed in Criterion B, Issue C, the proposed development is expected to improve the environmental conditions at the site and nearby Rank II habitat areas, by halting the migration of petroleum hydrocarbons into the river. Though the construction activities will occur within the 100 year flood plain and existing vegetation will be removed, detrimental impacts from the construction will be minimized with the requirement for grading and erosion control plans. Additionally, new plantings will help to enhance the riverbank and its habitat value, so the final development is not expected to have detrimental impacts on the site or adjacent habitat areas.

Further, due to the use of rock and vegetation, the shoreline will be protected from wave and wake damage. Also, because the proposed containment wall is almost entirely below grade, and two sections of the existing pipe will be removed, there will not be any structures projecting further into the waterway than what currently exist, so the development will not restrict boat access to neighboring properties or interfere with fishing use, or commercial or recreational boating. The development will not occur on a beach open to the public.

Though walls and fill are generally not allowed within and riverward of the Greenway Setback Area, due to the unique circumstances of this proposal—including the location of the contaminant and the need to solve a persistent environmental hazard at the site and the solution of an underground containment facility—this development will allow for the environmental clean-up without precluding opportunities to accommodate industrial activities and to enhance the appearance and habitat values of the shoreline. Based on the foregoing, these criteria are met.

DEVELOPMENT STANDARDS

Nonresidential uses in all zones that may cause off-site impacts on uses in Residential, Commercial or Open Space zones are required to meet the standards of Chapter 33.262, Off-Site Impacts. These standards regulate noise, vibration, odor and glare.

When alterations are made in excess of \$25,000, the site must be brought into conformance with the development standards listed in Section 33.258.070D.2.b. Development standards that have been modified through an Adjustment Review are exempt from this requirement.

Unless specifically required in the approval criteria listed above, this proposal does not have to meet the development standards in order to be approved during this review process. The development standards will have to be met before a building permit is issued.

III. CONCLUSIONS

The applicant states that, based on site evaluations, the rock bed under the existing storm sewer pipe is providing a conduit for contaminants to travel from the site to the river. Because prior remediation actions landward of the Greenway Setback have had limited success, the applicant has now prepared a clean-up program that calls for the capture and extraction of contaminants, which are located in and around the existing storm drain, which extends into and riverward of the Greenway Setback Area. In order to accomplish this clean-up action, the applicant has designed a wall system to be built around the existing pipe and contaminants. The containment wall system will include extraction wells to remove contaminants and fill materials will be installed in locations where contaminated gravel and soil must be excavated around the pipe. Because of these unique circumstances, the proposed development must necessarily also be

located within and riverward of the Greenway Setback Area. Since the containment wall will control the flow of petroleum hydrocarbons into the river, this will provide a public benefit by improving the quality of the Willamette River, which is consistent with the definition of *river-related* development.

Though nearly the entire containment wall system will be located within and riverward of the Greenway Setback Area, only the concrete collar and rock fill proposed around the existing storm sewer pipe will be visible above grade. Since this area of the bank has been occupied by a storm sewer pipe and rock rubble, since 1980, the proposed development is not expected to significantly alter the general appearance of the Greenway Setback Area. It is likely that the final appearance of the Greenway Setback Area will ultimately be enhanced with the removal of the contamination and the installation of new plantings around the pipeline and wall system.

The applicant has demonstrated that the proposal meets the applicable Greenway approval criteria, provided conditions are imposed to ensure sufficient erosion and sediment control measures will be in place during construction and that new vegetation will be installed to enhance the appearance and habitat value of the site. Therefore, the proposal should be approved.

IV. ADMINISTRATIVE DECISION

Approval of a Greenway Review for a sheet pile wall containment facility per the approved Exhibits C-3 and C-4, signed and dated October 10, 2001, subject to the following conditions:

1. As part of the permit application submittal, the following development-related conditions (A through A.1) must be noted on each of the 4 required site plans or included as a sheet in the numbered set of plans. The sheet on which this information appears must be labeled "ZONING COMPLIANCE PAGE- Case File #LUR 01-00517 GW." All requirements must be graphically represented on the site plan, landscape, or other required plan and must be labeled "REQUIRED."
 - A) A **Site Development Permit** must be obtained to demonstrate that the proposed excavation (80 cubic yards) and fill (78 cubic yards) and new development are consistent with Title 24 (flood plain development) and with the erosion and sediment control requirements for the floodplain area, prior to and during the construction activities.
 - A.1) A **Final Planting Plan** must be submitted to and approved by OPDR. The Planting Plan must include the type, size, and quantity of all proposed plantings. All plantings must be native plants identified in the *Portland Plant List*. The Planting Plan must reflect the planting scheme shown on the Proposed Greenway Planting Plan (Exhibit C-8) and it must also demonstrate that the Greenway Landscaping Standards (33.440.230) are met for the site's entire river frontage (approximately 300 feet). The approved plantings must be installed and inspected as part of the Site Development Permit.

Staff Planner: Kate Green

Decision rendered by: Susan Feldman on October 10, 2001

Decision filed October 11, 2001

Decision mailed October 12, 2001

This application was determined to be complete on September 18, 2001. On October 1, 2001, the applicant requested a 10 day extension to the 120-day review period.

Note: Some of the information contained in this report was provided by the applicant. As required by Section 33.800.060 of the Portland Zoning Code, the burden of proof is on the applicant to show that the approval criteria are met. The Office of Planning and Development Review has independently reviewed the information submitted by the applicant and has included this information only where the Office of Planning and Development Review has determined the information satisfactorily demonstrates compliance with the applicable approval criteria. This report is the decision of the Office of Planning and Development Review with input from other City and public agencies.

Appealing this decision. This decision may be appealed to the Hearings Officer, which will hold a public hearing. Appeals must be filed **by 4:30 PM on October 26, 2001**, at 1900 SW Fourth Ave. Appeals can be filed on the first floor in the Development Services Center until 3 p.m. After 3 p.m., appeals must be submitted to the receptionist at the front desk on the fourth floor of OPDR. **An appeal fee of \$250 will be charged.** The appeal fee will be refunded if the appellant prevails. Neighborhood associations and low-income individuals may qualify for a waiver of the appeal fee. Assistance in filing the appeal and information on fee waivers is available from OPDR in the Development Services Center. Fee waivers for low-income individuals must be approved prior to filing your appeal; please allow 3 working days for fee waiver approval. Fee waivers for neighborhood associations require a vote of the authorized body of your association. Please see the appeal form for additional information.

The file and all evidence on this case is available for your review by appointment only. Please contact the receptionist at 823-7300 to schedule an appointment. I can provide some information over the phone. Copies of all information in the file can be obtained for a fee equal to the cost of services. Additional information about the City of Portland, city bureaus, and a digital copy of the Portland Zoning Code is available on the internet at www.ci.portland.or.us.

Attending the hearing. If this decision is appealed, a hearing will be scheduled, and you will be notified of the date and time of the hearing. The decision of the Hearings Officer is final; any further appeal must be made to the Oregon Land Use Board of Appeals (LUBA) within 21 days of the date of mailing the decision, pursuant to ORS 197.620 and 197.830. Contact LUBA at 550 Capitol St. NE, Salem, Oregon 97310 [Telephone 503-373-1265 for further information.

Failure to raise an issue by the close of the record at or following the final hearing on this case, in person or by letter, may preclude an appeal to LUBA on that issue. Also, if you do not raise an issue with enough specificity to give the Hearings Officer an opportunity to respond to it, that also may preclude an appeal to LUBA on that issue.

Recording the final decision. If this decision is not appealed, it will be final on **October 27, 2001**. It cannot be recorded before that date, but it must be recorded by the Multnomah County Recorder before the approved use is permitted, any building or zoning permits are issued.

The applicant, builder, or a representative may record the final decision as follows:

- By Mail: Send the two recording sheets (sent in separate mailing) and the final Land Use Review decision with a check made payable to the Multnomah County Recorder to: Multnomah County Recorder, P.O. Box 5007, Portland OR 97208. The recording fee is identified on the recording sheet. Please include a self-addressed, stamped envelope.
- In Person: Bring the two recording sheets (sent in separate mailing) and the final Land Use Review decision with a check made payable to the Multnomah County Recorder to the County Recorder's office located at 501 SE Hawthorne Boulevard, #158, Portland OR 97214. The recording fee is identified on the recording sheet.

For further information on recording, please call the County Recorder at (503) 988-3034.

Expiration of this approval. This decision expires three years from the date the final decision is rendered unless:

- A building permit has been issued, or
- The approved activity has begun, or
- In situations involving only the creation of lots, the land division has been recorded.

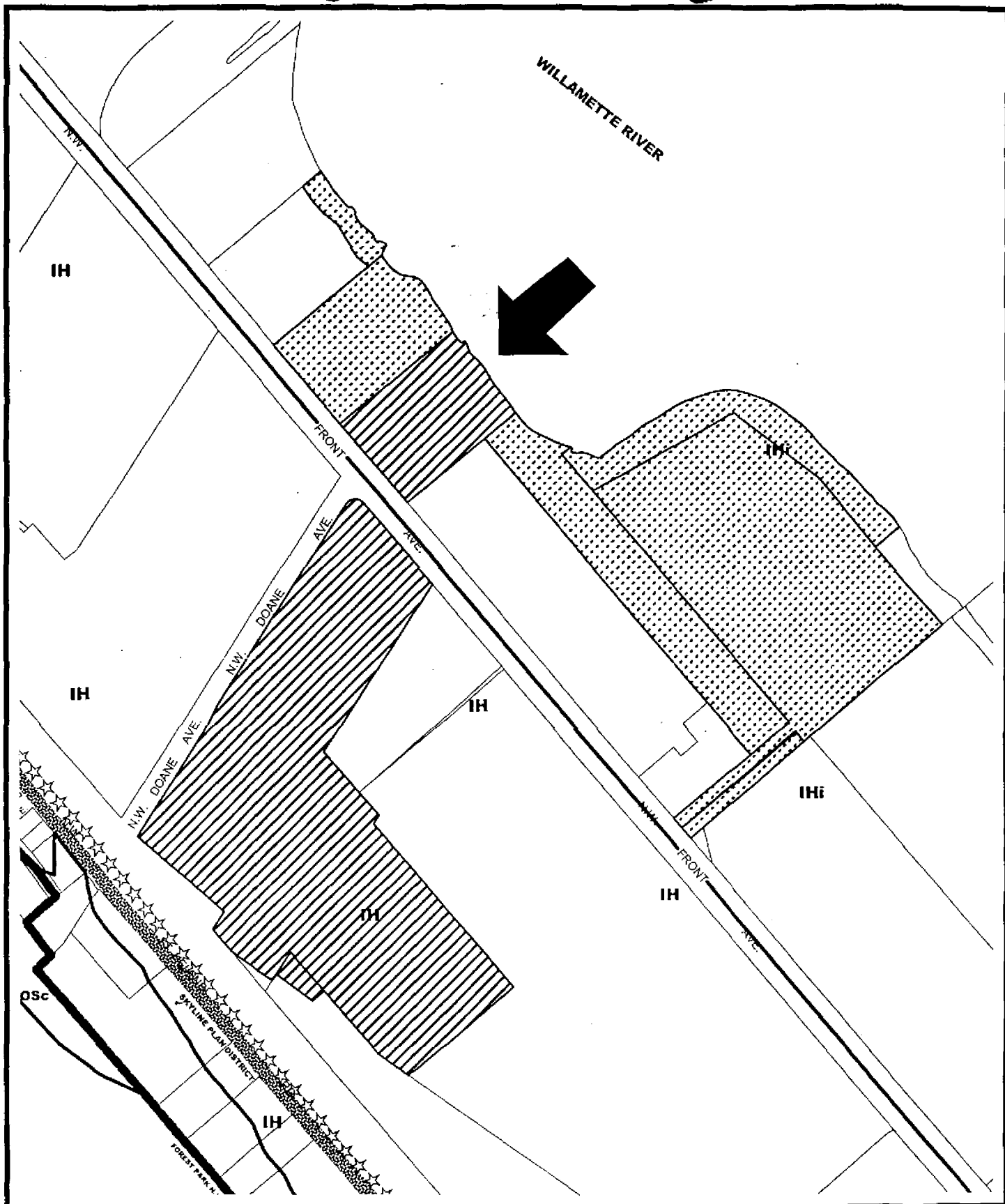
Applying for your permits. A building permit, occupancy permit, or development permit must be obtained before carrying out this project. At the time they apply for a permit, permittees must demonstrate compliance with:

- All conditions imposed here.
- All applicable development standards, unless specifically exempted as part of this land use review.
- All requirements of the building code.
- All provisions of the Municipal Code of the City of Portland, and all other applicable ordinances, provisions and regulations of the city.

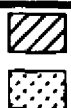
EXHIBITS - NOT ATTACHED UNLESS INDICATED

- A. Applicant's Statement
- B. Zoning Map (attached)
- C. Plans/Drawings:
 - 1. Existing Conditions Plan
 - 2. Adjacent Development Plan
 - 3. Project Area Map (attached)
 - 4. Cut-off wall Plan (attached)
 - 5. Outfall Detail (attached)
 - 6. Cut-off wall Elevation/Details (attached)
 - 7. Erosion Control Plan
 - 8. Planting Plan (attached)
- D. Notification information:
 - 1. Mailed notice
 - 2. Mailing list
- E. Agency Responses:
 - 1. Bureau of Environmental Services
 - 2. Portland Transportation
 - 3. Fire Bureau
 - 4. Urban Forestry
- F. Correspondence
 - 1. Letters to Applicant-8/14/01, 9/24/01, 10/2/01
 - 2. Letters from Applicant-8/1/01, 8/31/01, 9/14/01, 9/17/01, 9/18/01, 9/28/01
- G. Other
 - 1. Original LUR Application
 - 2. Site History Research
 - 3. DSL Notification Form

The Office of Planning and Development Review is committed to providing equal access to information and hearings. If you need special accommodations, please call 823-7300 (TTY 823-6868).



ZONING



Site

Property also owned

File No. LUR 01-00517 GW

1/4 Section 2523, 2423

Scale 1 inch = 400 feet

State-Id 1N1E18C -00900+

Exhibit B (Aug 9, 2001)

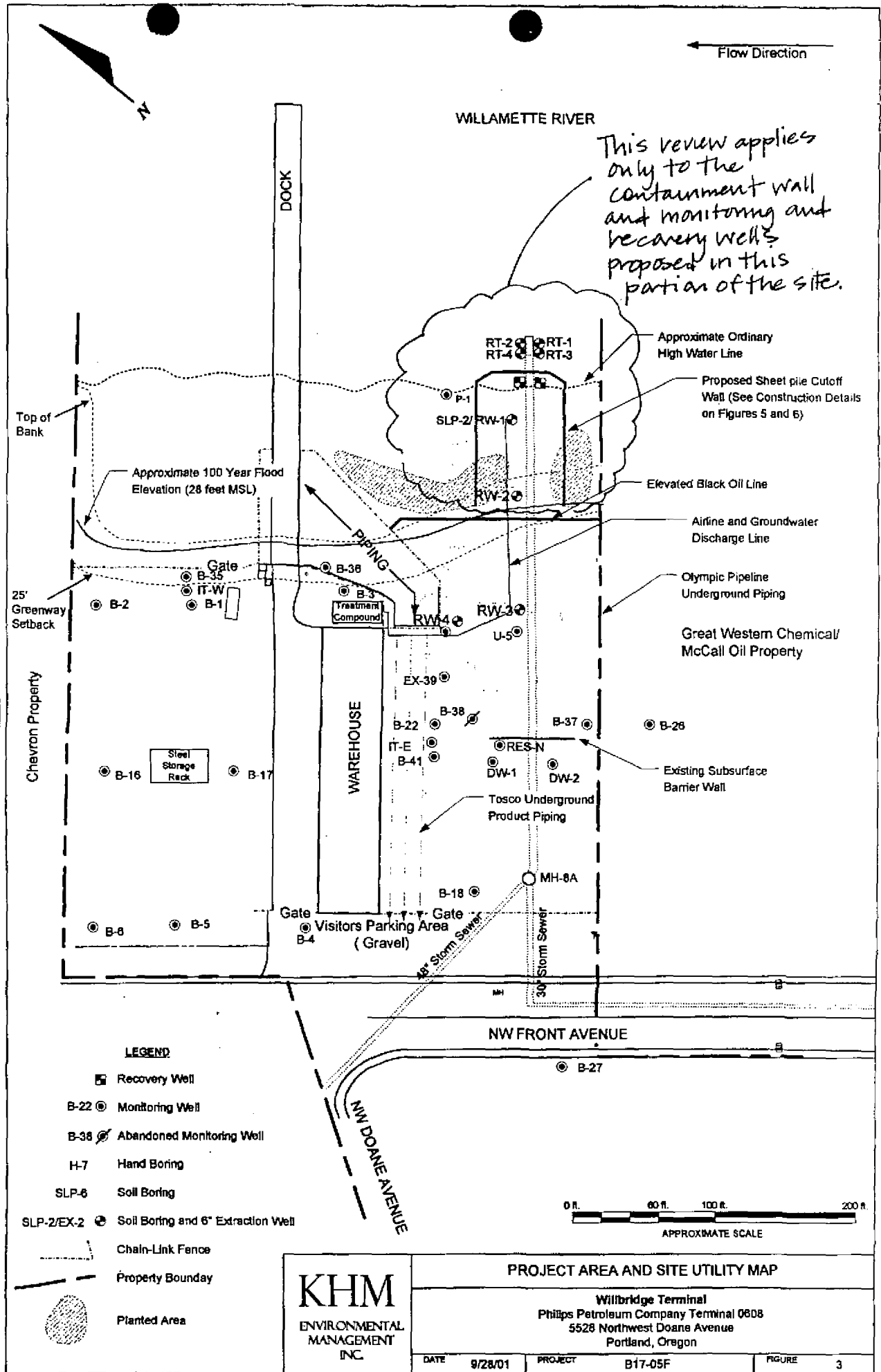


COP0019212

"Approved"
City of Portland - Office of Planning and Development Review

Planner 10 Oct 01

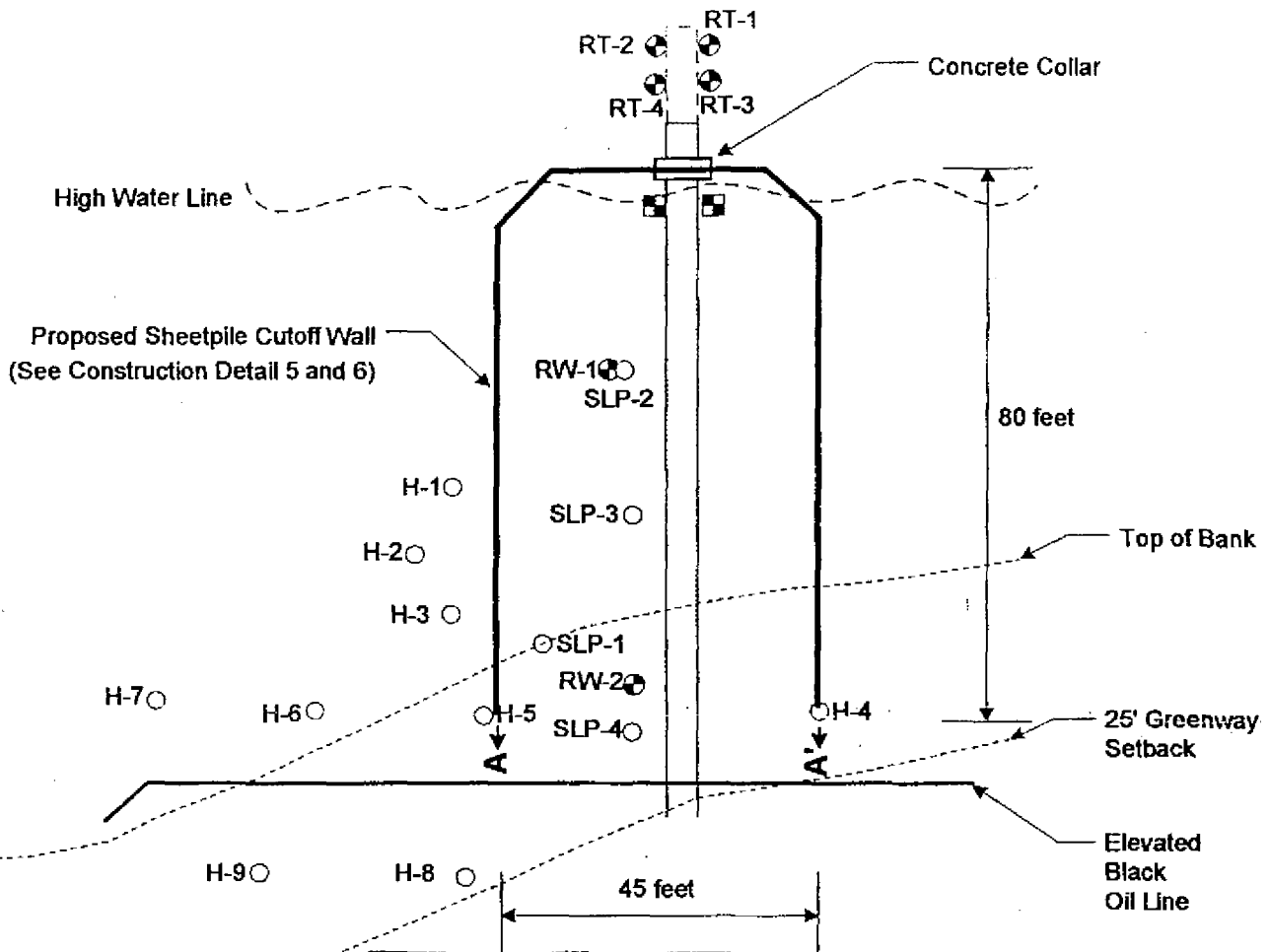
This approval applies only to the reviews requested and is subject to all conditions of approval. Additional zoning requirements may apply.



LUR 01-5176W
EXHIBIT # C3

COP0019213

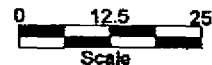
RT-1 through RT-4
To Be Abandoned



Approved
City of Portland - Office of Planning and Development Review
 Planner [Signature] Date 10 Oct 01
 * This approval applies only to the reviews requested and is subject to all conditions of approval. Additional zoning requirements may apply.

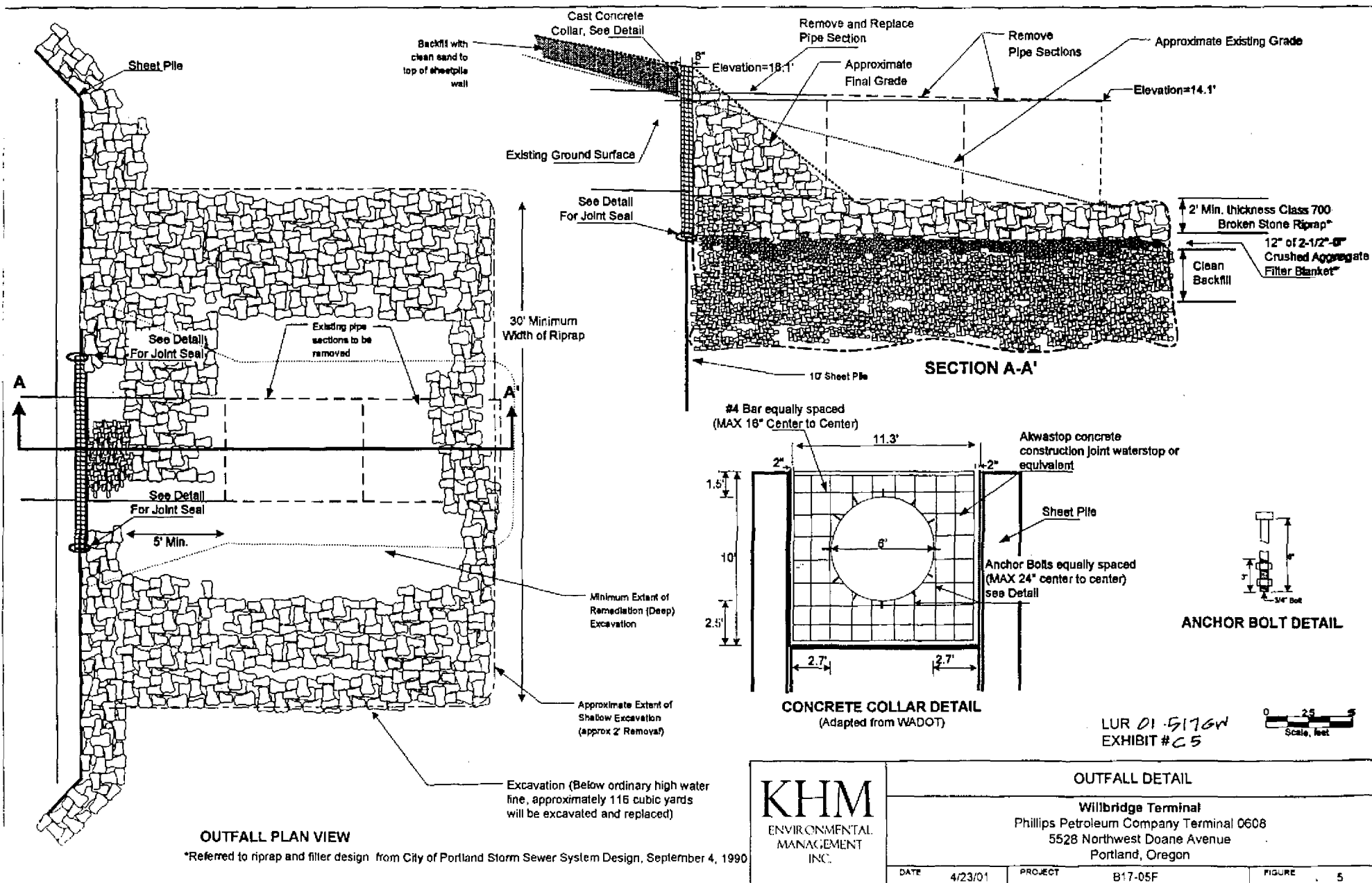
LEGEND

- Proposed Recovery Well Location
- RT-2 Existing Recovery Well and Identification
- H-9 Boring Location and Identification

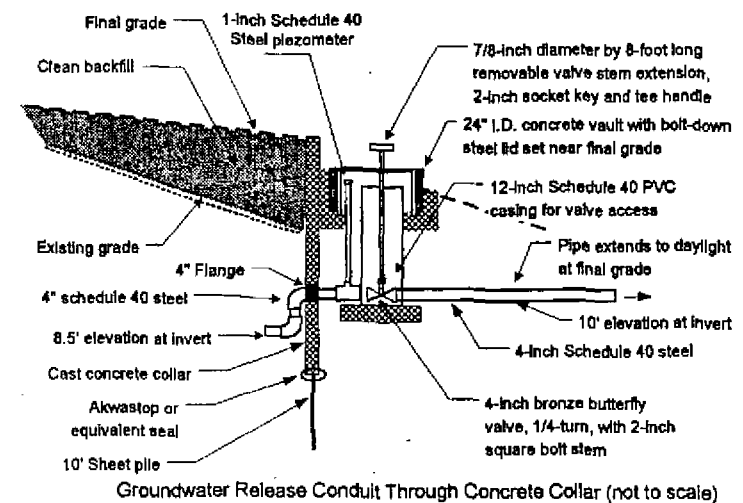
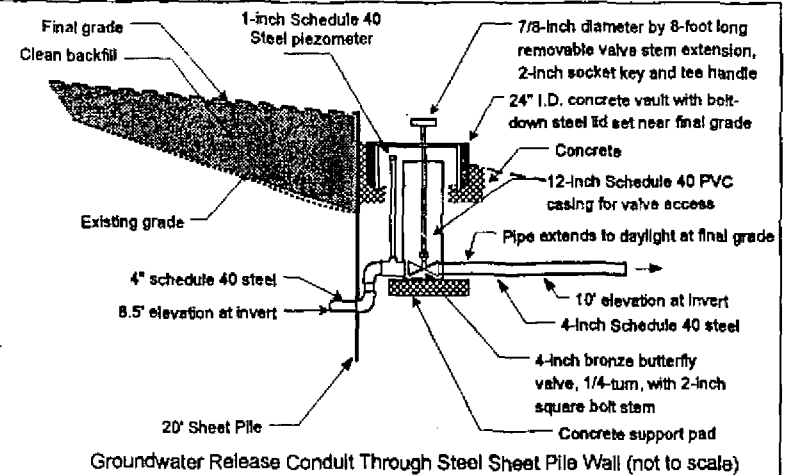
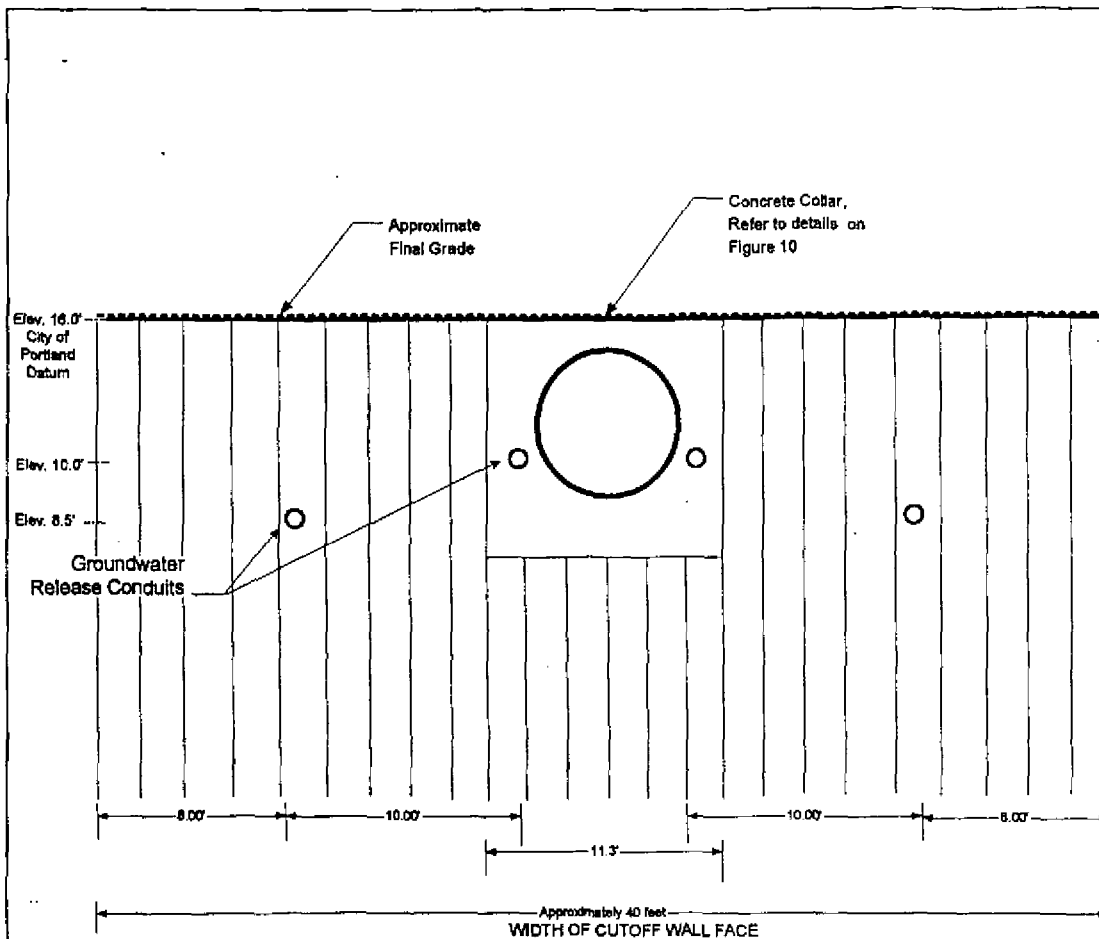


<div style="text-align: center;"> <h1 style="margin: 0;">KHM</h1> <p>ENVIRONMENTAL MANAGEMENT INC.</p> </div>	PROPOSED CUTOFF WALL PLAN VIEW		
	Phillips Petroleum Company Willbridge Terminal 0608 5528 Northwest Doane Avenue Portland, Oregon		
	DATE 6/6/01	PROJECT B17-05F	FIGURE 4

LUR 01-5176W
EXHIBIT # C4



KHM
 ENVIRONMENTAL
 MANAGEMENT
 INC.

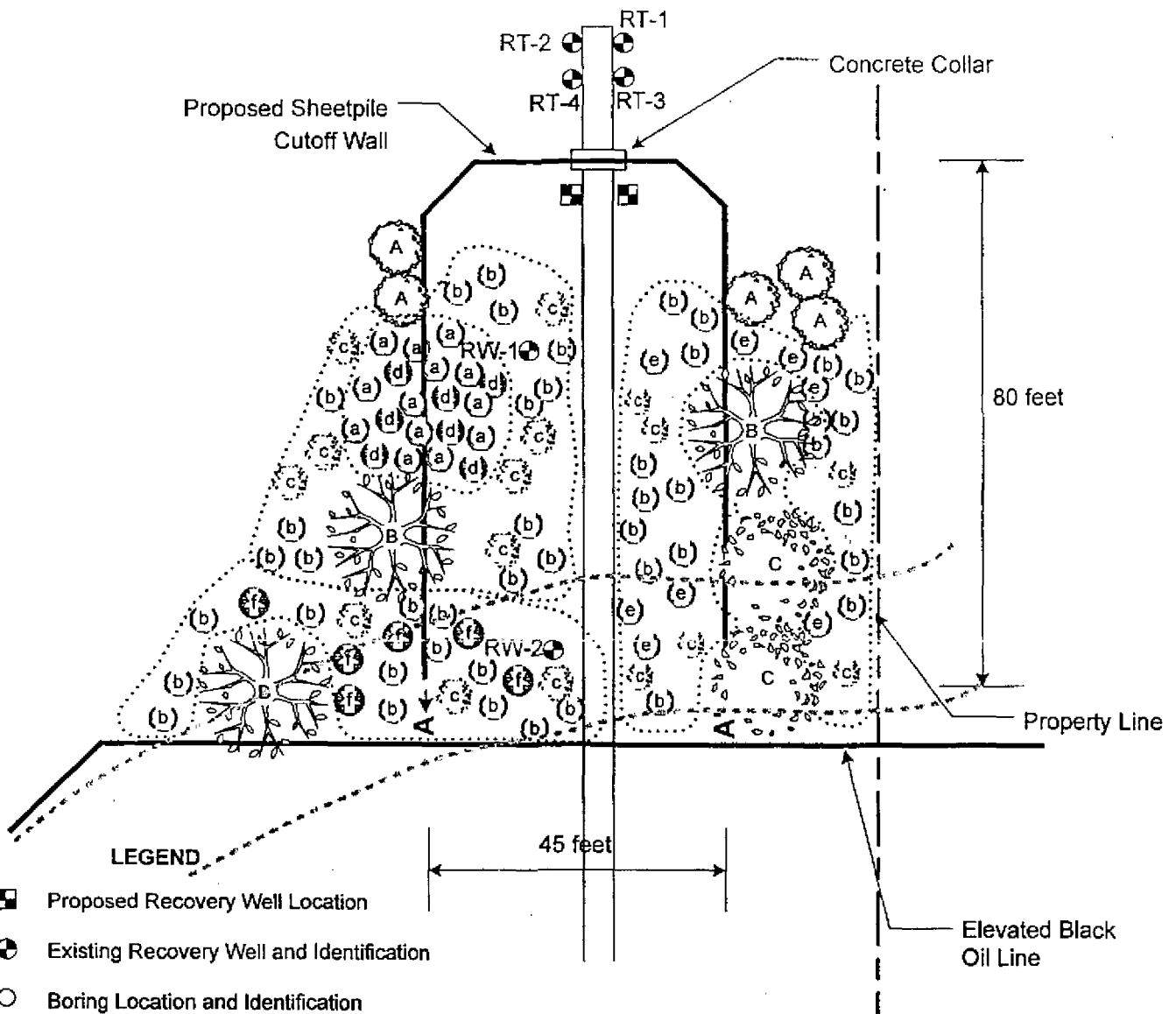


KHM ENVIRONMENTAL MANAGEMENT, INC.	Cutoff Wall Elevation and Groundwater Release Conduit Detail Phillips Petroleum Company Willbidge Terminal 0808 5528 NW Doane Avenue Portland, Oregon		
	DATE 6/6/01	PROJECT B17-05F	PAGE 6

LUR 01-5176W
EXHIBIT #C6

LUR 01-00517 GW

RT-1 through RT-4
To Be Abandoned



No Scale

LUR 01-5176W
EXHIBIT # C8

KHM

ENVIRONMENTAL
MANAGEMENT
INC.

60-INCH OUTFALL PROPOSED GREENWAY PLANTING PLAN

Willbridge Terminal

Tosco Willbridge Terminal 0608
5528 Northwest Doane Avenue
Portland, Oregon

DATE	7/25/01	PROJECT	B17-05F	FIGURE	1
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COP0019217



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with the local county offices for recording fee information. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 50009	Well log Number: MULT 64997	Start Card Number: 135262
---------------------------------	------------------------------------	----------------------------------

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 50010	Well log Number: MULT 64998	Start Card Number: 135263
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Owner's Address:

TASCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

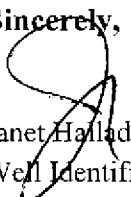
County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,


Janet Halladey
Well Identification Program
Enforcement Section



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

Dear Well Owner:

The Oregon Water Resources Department has implemented a well identification program. This program links existing or newly constructed wells with Department records. The program will facilitate better management of Oregon's groundwater resources and provide the public easier access to information about specific wells.

As part of the identification process, the well constructor attached a tag to your well at the time of completion or alteration.

The last step of this process requires you to file the enclosed State of Oregon Well Ownership Information Form **with the county in which your well is located. This form should be filed with the property deed records at that local County Clerk's Office.** Please check with the local county offices for recording fee information. The form must be signed and notarized prior to recording. Each property owner listed must provide a notarized signature.

The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 50007

Well log Number: MULT 64995

Start Card Number: 135260

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

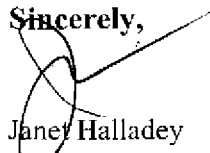
County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,


Janet Halladey
Well Identification Program
Enforcement Section

COP0019220



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130

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The information below was provided by the well constructor who constructed your well. If the data is incorrect please notify the well constructor, so they may submit the proper information to the Water Resources Department.

Well Tag Number: L 50008	Well log Number: MULT 64996	Start Card Number: 135261
---------------------------------	------------------------------------	----------------------------------

Owner's Address:

TOSCO REFINING CO.
5528 NW DOANE AVE
PORTLAND, OR 97210

Well Location: 1.00 N 1.00E 19

County: MULT

Street of Well: 5528 NW DOANE AVE

Tax-lot: 100

If you have questions please call (503) 378-8455 ext. 260. Thank you for your cooperation.

Sincerely,

Janet Halladey
Well Identification Program
Enforcement Section

COP0019221



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

October 19, 2001

Kelly Kline
KHM Environmental Management
123 NE 3rd Street, Suite 300
Portland, Oregon 97232

RE: Willbridge Bulk Fuel Facilities
DEQ Approval of Modifications to Groundwater Monitoring Program

Dear Kelly:

DEQ has reviewed the report, *Groundwater Sampling Program Evaluation, Willbridge Terminals Group, Portland, Oregon*, prepared by KHM Environmental Management, Inc. and dated May 11, 2001. The report evaluated the current groundwater monitoring program and proposed revisions to this monitoring program.

DEQ approves of the following proposed revisions to the groundwater monitoring program:

- Quarterly gauging of groundwater levels and SPH.
- Collection of SPH on a monthly basis from those wells containing SPH as observed during the latest quarterly gauging event.
- Reduction of the number of monitoring wells from 38 to 21 as identified in Table 1 of the above referenced report.
- Semi-annual sampling of the 21 wells for the following analytes; BTEX, PAHs, and total metals.

DEQ requests that monitoring for total metals be continued until completion of the remedial investigation and risk assessment phases of work. Dissolved metals may be eliminated from the analytical program.

DEQ understands that sampling of the wells was conducted in September 2001. The next semi-annual sampling event is expected to be conducted in March 2002.

Please be advised that DEQ may request that additional wells and/or analytes be included in the groundwater monitoring program in response to spills or other releases, or in any other event that DEQ deems necessary to monitor contaminant migration. Also, the groundwater



monitoring program may require changes as a result of DEQ issuance of a Record of Decision for the final remedy for the site. If groundwater monitoring is a component of the final remedy, the requirements of a groundwater monitoring program will be specified in the Record of Decision.

Please feel free to call me at 503-229-6900 if you should have any questions regarding the project.

Sincerely,



Jill Kiernan, P.E.
Senior Project Engineer

cc : Marty Cramer, Tosco
 Gerald O'Regan, Chevron
 Frank Fossati, Shell
 Eric Conard, Kinder Morgan Energy Partners
 Ron Schwab, Unocal
 Gerry Koschal, PNG Environmental
 John Foxwell, Hart Crowser



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

02/05/2002

Dear Well Owner:

In 1996, the Oregon Water Resources Department implemented a well identification program to comply with Oregon Revised Statute (ORS 537.788 - 537.793). This program links existing or newly constructed wells with Department records. The program facilitates better management of Oregon's ground water resources and provides the public easier access to information about specific wells.

As part of the well identification program, the well constructor attached a tag to your well at the time of completion. The last step of this process requires you to file the enclosed "State of Oregon Well Ownership Information Form" with the county clerk's office in which your well is located.

The form must be completed, signed and notarized prior to recording at the county clerk's office in which the well is located. **Please contact your county clerk's office for recording fee information, as well as the deed recording number or legal description, (ie; metes and bounds, etc.).**

You'll need to indicate at the top left-hand corner of the form who should receive this form after the recording process is completed by your county clerk's office. We recommend that you keep it with your records. We do not need a copy.

The information below was provided by the well constructor who constructed your well. If any of this information is incorrect, please notify the well constructor, so they may submit correct information to the Water Resources Department. You may, however, proceed with recording the Well Ownership Information Form, unless the Well ID (tag) Number is incorrect. If that is so, please contact our office.

Well Tag Number: L 54941	Well log Number MULT 65715	Start Card Number: 123706
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Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 95072

Well Location: 1.00 N 1.00 E 18 **County:** MULT **Tax-lot:** 900

Street of Well: 5528 NW DOANE AVE, PORTLAND

Thank you for your cooperation with the Well Identification Program.

Janet Halladey
Well Identification Program

Enclosure





Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
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02/05/2002

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Well Tag Number: L 54940	Well log Number MULT 65714	Start Card Number: 123705
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Owner's Address:

TOSCO CORP.; DUTTON, R S
PO BOX 52085
PHOENIX, AZ 95072

Well Location: 1.00 N 1.00 E 18 **County:** MULT **Tax-lot:** 900

Street of Well: 5528 NW DOANE AVE, PORTLAND

Thank you for your cooperation with the Well Identification Program.

Janet Halladey
Well Identification Program

Enclosure

Legal description: — e
Instrument # 97088026 (Tosco's #)
mult number - 10 wells @ this address

Total: # 66 -

April 6, 2002

Jill Kiernan
Oregon Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, Oregon 97201-4987

Dear Ms. Kiernan:

This letter is a response to your letter dated March 8, 2002, which presents the Oregon Department of Environmental Quality's (DEQ's) comments to the report *Draft Remedial Investigation Report, Willbridge Facility Portland, Oregon* submitted by KHM Environmental Management, Inc. In addition, this letter restates issues which were discussed and agreed upon during our phone call on April 4, 2002.

After a review of your comments, the Willbridge Facility group proposes that the group's consultant team modify the draft report, incorporating your comments where appropriate, to meet the requirements of the Consent Order.

The group will submit a schedule and timeline for the modification of the report to DEQ by April 19, 2002. The group will schedule a meeting with DEQ in late April or early May to obtain clarification on specific comments and discuss our general approach to addressing the balance of the comments and the proposed timeline for the modification and re-submittal of the report.

We appreciate your attention and participation in this project, and look forward to meeting with you in late April.

Sincerely,

ChevronTexaco Companies

Gerald O'Regan
Project Manager

Cc: Marty Cramer, Phillips Petroleum Company, 5528 NW Doane Avenue, Portland, OR 97210
Eric Conard, Kinder Morgan 1100 Town and Country Road, Orange, CA 92868
Kelly Kline, KHM Environmental Inc., 123 NE 3rd, Suite 300, Portland, Oregon 97232
Frank R. Fossati, Shell Oil Company, P.O. Box 219 (Zip 92609-0219), 24551 Raymond Way, Suite 160, Lake Forest, CA 92630
John Foxwell, Hart Crowser, Five Centerpoint Drive, Suite 240, Lake Oswego, OR 97035



April 18, 2002

Ms. Jill Kiernan
Oregon Department of Environmental Quality
2020 SW Fourth Ave, Suite 400
Portland, Oregon 97201

**RE: Status of Response to DEQ Comments,
Remedial Investigation Review
Willbridge Terminals Site
Portland, Oregon
DEQ File No. WMCSR-NWR-94-06**

Dear Ms Kiernan:

The purpose of this letter is to document our phone conversation on April 18th 2002. We agreed that it is premature for the Willbridge Facility Group (Willbridge Group) to submit a schedule regarding our response to the Department of Environmental Quality's (DEQ) comments on our Remedial Investigation. The Willbridge Group will select a technical team by May 10th who will modify the document where appropriate. The Willbridge Group will contact you by May 17th to discuss project milestones and an approximate schedule.

If you need further information or have any questions, please call me at (925) 842-3334.

Sincerely,
Chevron Products Company.

A handwritten signature in black ink, appearing to read 'Gerald O'Regan'.

Gerald O'Regan
Project Manager

COP0019227

Cc: Marty Cramer, Phillips Petroleum Company, 5528 NW Doane Avenue,
Portland, OR 97210
Eric Conard, Kinder Morgan, 1363 North Gaffey Street, San Pedro, CA 90731-
1323
Kelly Kline, KHM Environmental Inc., 123 NE 3rd, Suite 300, Portland, Oregon
97232
Frank R. Fossati, Shell Oil Company, P.O. Box 219 (Zip 92609-0219), 24551
Raymond Way, Suite 160, Lake Forest, CA 92630
John Foxwell, Hart Crowser, 5 Center Point Drive, Suite 240, Lake Oswego, OR
97035



TOSCO

Tosco Refining Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210

May 7, 2002

Ms. Jill Kiernan
Oregon Department of Environmental Quality
2020 Fourth Avenue, Suite 400
Portland, OR 97201-4987

Re: DEQ Oversight Invoices
Unocal - Willbridge II - 0608

Dear Ms. Kiernan:

I am in receipt of your invoice numbered HSRAF02-1642 for \$2,076.82 for oversight costs specific to the Willbridge Unocal/Tosco facility. I apologize for the delay in sending this letter but I was waiting to hear from the other Willbridge PRPs to see if they received a similar invoice. I also needed to discuss it with my management and legal counsel as how to respond given some charges predate Tosco's acquisition of the facility. Additionally, it appears from the extremely brief explanation provided that at least some charges were related to spills at the facility which may or may not be related to remediation activities and consequently must be charged to a different group internally. I realize this is not your concern, but feel it is reasonable to request that DEQ provide additional details as to the origin of each of the charges to facilitate determining who within Tosco or Unocal is responsible for payment.

It probably goes without saying that I was surprised at receiving an invoice for oversight charges dating back to June of 1994 and inclusive of charges as recent as December 2001. This is particularly true considering DEQ has been invoicing us monthly for remediation related oversight costs for several years. We have also received several oversight invoices, independent of the remediation charges, from DEQ for their involvement in each of the three or four spills we have had at the terminal since I began working here in 1996. No disrespect intended, but I find it remarkable that considering the amount of the DEQ's invoices, any charges could have been missed and I am curious to learn how this happened.

In summary, in order for us to process the invoice and reimburse DEQ for the oversight charges, we are requesting a description of what each of the charges on the invoice were for as well as an explanation of why the charges were not included on previous invoices.

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (503) 248-1517.

Sincerely,

Martin Cramer
Site Manager

File: Portland/Remediation/JKDEQoldinv.doc

COP0019229



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

MUNICIPAL PRETREATMENT PROGRAM

INDUSTRIAL USER

COMPANY OFFICIAL SIGNATORY AUTHORIZATION

0922

~~PERMITS~~

The undersigned person has been designated by Tosco / Chevron Remediation Site Portland, Oregon as the duly authorized representative with the assigned responsibility for environmental matters and compliance with the firm's City of Portland Waste Water Discharge Permit (#500.015) and the Code of the City of Portland

This authorization is made pursuant to 40 CFR 403.12(l)(1-3)

DESIGNEE:

[Signature]
name

SITE MANAGER, RISK MANAGEMENT & REMEDIATION
position/title

RESPONSIBLE CORPORATE OFFICIAL:

(SEE ATTACHED)
print name here

signature here

40 CFR 403.12(l)(4)

If an authorization under paragraph (l)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirement of paragraph (l)(3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative

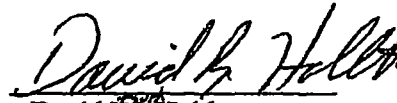
DESIGNATION OF AUTHORITY

Undersigned is the duly elected Vice President of Phillips Petroleum Company. This instrument is to designate the authority of Martin Cramer to apply for and execute all applications, licenses, permits and documents necessary and incidental to discharging effluents from the Company's facility located at 5528 NW Doane Avenue, Portland, OR 97210 in to the municipal sanitary sewer system of the City of Portland, Oregon.

This designation appoints Martin Cramer as its agent and attorney in fact. Acts of the designee on behalf of the Company, limited by the foregoing, shall inure to the benefit of and shall be binding upon the Company.

October 11, 2002

Phillips Petroleum Company


David W. Holthe
Vice President

Attest: David Waldschmidt, Asst. Secretary attests
that David W. Holthe is Vice President of
Phillips Petroleum Company and that his
signature affixed above is true and correct


David A. Waldschmidt

MUNICIPAL PRETREATMENT
PROGRAM

INDUSTRIAL USER

COMPANY OFFICIAL
SIGNATORY AUTHORIZATION

The undersigned person has been designated by ConocoPhillips Portland, Oregon as the duly authorized representative with the assigned responsibility for environmental matters and compliance with the firm's City of Portland Waste Water Discharge Permit (#400 181) and the Code of the City of Portland

This authorization is made pursuant to 40 CFR 403.12(l)(1-3).

DESIGNEE:

name

position/title

RESPONSIBLE CORPORATE OFFICIAL:

print name here

signature here

40 CFR 403.12(l)(4)

If an authorization under paragraph (l)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirement of paragraph (l)(3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative



City of Portland
Bureau of Development Services
Land Use Review Division

1900 SW Fourth Ave. Suite 5000
Portland, Oregon 97201
Telephone: 503-823-7300
TDD: 503-823-6868
FAX: 503-823-5630
www.bds.ci.portland.or.us

Date: February 4, 2003
To: Interested Person
From: Mark Walhood, Land Use Review
(503) 823-7806

ADC 0922

AGENCY CORR.

**NOTICE OF A TYPE II DECISION ON A PROPOSAL IN
YOUR NEIGHBORHOOD**

The Bureau of Development Services has approved a proposal in your neighborhood. The reasons for the decision are included in this notice. If you disagree with the decision, you can appeal it and request a public hearing. Information on how to appeal this decision is listed at the end of this notice.

CASE FILE NUMBER: LU 02-150064 AD

GENERAL INFORMATION

Applicant: Tosco Corporation
5528 NW Doane Avenue
Portland, Oregon 97210

Representative: William Bishop
c/o Alpha Engineers & Constructors
2929 NW 29th Avenue
Portland OR 97210

Property Owner: Tosco Corporation
P O Box 52085
Phoenix, AZ 85072

Site Address: 5500-5528 NW Doane Avenue

Legal Description: Township 1 North, Range 1 East, Section 19, Taxlot 100 with 18.61 acres; Township 1 North, Range 1 East, Section 19BB, Taxlot 100 with 0.21 acres

Tax Account No.: [REDACTED]

State ID No.: 1N1E19 00100; 1N1E19BB 00100; 1N1E18C 900

Quarter Section: 2423, 2523

Neighborhood: Northwest Industrial, contact Chris Mongrain at (503) 277-6414
Neighborhood within 400 feet of the site: Linnton, contact Pat Wagner at (503) 286-8026

Business District: Northwest Industrial Business Association, contact Kent Studebaker at (503) 227-6638

District Coalition: Neighbors West/Northwest, contact David Allred at (503) 223-3331

COP0019233

Zoning: IH/IH1 (Heavy Industrial base zone, portions east of NW Front Ave. under River Industrial Greenway overlay zone), **Guild's Lake Industrial Sanctuary Plan District**

Case Type: AD (Adjustment Review)

Procedure: **Type II**, an administrative decision by Bureau of Development Services that may be appealed to the Adjustment Committee.

Proposal:

The applicant has requested an adjustment to waive the requirement to perform nonconforming upgrades on the site (adjustment to 33.258.070.D.2). The applicant is required to address upgrades to nonconforming development on the site as part of the building permit review for a new warehouse and rail spur project at the south end of the site. Because the proposal involves an industrial service use under IH zoning, and because the existing vehicle areas on the site are already paved, potential upgrades would include landscaped setbacks for surface parking and exterior work activity areas, interior parking lot landscaping, and screening. Upgrades related to pedestrian circulation systems, bicycle parking, landscaping in building setbacks, and minimum landscaped areas don't apply to this site due to the IH zoning, the Industrial Service use, and the lack of any abutting residential zones. Completing the required upgrades would involve removing existing paving in areas at the perimeter of the site along NW Doane and NW Front Avenues to install a five-foot deep landscaped strip, removal of paving and installation of landscaping at the interior of parking areas, and screening of any mechanical equipment visible from the street by walls, fences or vegetation tall enough to screen the equipment.

The applicant has stated environmental and security concerns in support of their request. The applicant cites a federally mandated Spill Prevention Control and Countermeasure (SPCC) Plan and a Storm Water Pollution Control (SWPCP) Plan. Per these plans, material transfer areas are paved and sloped to direct any spills or runoff to a process water system that treats all liquids (API separator, air flotation) prior to discharge to the sanitary sewer. Non-transfer areas direct any spills or runoff to the stormwater system, which treats all liquids (API separator) prior to discharge to the stormwater system. The applicant states that puncturing the asphalt seal to provide landscaping would both decrease the pollution control effectiveness of the facility and violate both the SPCC and SWPCP. The applicant also cites security guidelines of the U.S. Coast Guard for waterfront oil transfer facilities requiring perimeter areas to be cleared of vegetation and debris that could be used to breach fences. Finally, the applicant states that the City of Portland Bureau of Environmental Services (Eric DeBarry) is opposed to removing paving and installing landscaping at this specific site.

In order to eliminate the requirement for upgrades to nonconforming development, including the installation of landscaping, therefore, the applicant has requested this adjustment review.

Relevant Approval Criteria:

In order to be approved, this proposal must comply with the approval criteria of Title 33. The approval relevant criteria are found at PCC 33.805.040 - Adjustment Approval Criteria.

ANALYSIS

Site and Vicinity: The site includes two parcels owned by Tosco Corporation west of NW Front Avenue that total approximately 19 acres in size, and one parcel leased by Tosco from the Port of Portland east of NW Front Avenue of approximately three acres in size. The riverfront property east of NW Front Avenue is developed with a dock and pipelines which are used to transport fuels to the storage tanks (tank farm) across NW Front, a warehouse building, a graveled area for exterior storage, fencing and surface parking. The area west of NW Front Avenue contains three tank farm areas, one warehouse with a small upstairs office, three truck loading racks, and several truck pump-off/pump transfer and circulation areas. The only non-paved areas on the site are within the enclosed tank farm areas, in the south end of the site

where a new warehouse and rail spur project are proposed, on the riverfront parcel, and in other isolated areas available for underground piping and conduit.

The site is a secured area with restricted access via security gates, and large concrete barriers were recently installed along NW Doane and NW Front Avenue within the first several hundred feet back from the corner. Surface parking for personnel and visitors is scattered in the center of the site near the existing warehouse, near and along the frontage of NW Doane Avenue, and along the frontage of NW Front Avenue near the dock. Along NW Doane Avenue, the facility is bounded by concrete blast walls, chain-link fencing, parking areas, buildings, a truck loading rack and pumping area, and the ingress and egress alleyways. On the marine side of NW Front Avenue, tall chain-link fencing, entry and exit gates, and the short end of the warehouse are near the property line, allowing unobstructed views of the pipeways and docks. Surface parking for personnel and visitors is scattered in the center of the site near the existing warehouse, near and along the frontage of NW Doane Avenue, and along the frontage of NW Front Avenue near the dock.

The surrounding area contains several other petroleum distribution terminals, docks, and accessory trucking, office and storage operations. In addition to petroleum distribution terminals and docks, uses in the area include an asphalt refinery and chemical storage and distribution. Railroad tracks and a small office building for Burlington Northern Railroad's Freight operations lie between the west boundary of the site and NW St. Helens Road. Nearby properties on the west side of NW St. Helens Road are also within the IH zone, and include industrial businesses, a small restaurant, and several older homes. Forest Park lies beyond the narrow strip of private property west of St. Helens Road.

Northwest Front Avenue is a public right-of-way 100-feet-wide, and is developed with a 46-foot wide blacktop roadway, curbing and sidewalks. Northwest Doane Avenue is a public right-of-way 60-feet-wide, and is developed with a 36-foot wide blacktop roadway and curbing. Northwest Doane Avenue dead-ends at the west edge of the site before the railroad tracks, and does not provide pedestrian or vehicular connections to NW St. Helens Road.

Tri-Met operates bus Lines #16 (Front Ave. - St. Johns) and #17 (NW 21st - St. Helens Road) nearby along NW St. Helens Road, with stops at NW Doane Avenue. Bus Line #17 also runs a rush hour service extension to Wacker Siltronic along adjacent sections of NW Front, although this extension does not provide stops near the site.

Both NW Doane and NW Front Avenues are designated as Neighborhood Collector Traffic Streets, and NW Front is designated also as a City Bikeway and Minor City Transit Street in the Transportation Element of the Comprehensive Plan (the "TE"). Northwest St. Helens Road is designated in the TE as a Regional Trafficway and Major City Traffic Street, and as both a City Bikeway and City Walkway. The entire site is within a designated Truck District.

Zoning: The site is zoned Heavy Industrial (IH) with the River Industrial Greenway (I) overlay zone designation east of NW Front Avenue. The site is also within the **Guild's Lake Industrial Sanctuary plan district**. The IH zone is one of three zones that implement the Industrial Sanctuary map designation of the Comprehensive Plan. This zone provides areas where all kinds of industries may locate, including those not desirable in other zones due to their objectionable impacts or appearance. The development standards are the minimum necessary to assure safe, functional, efficient, and environmentally sound development.

The River Industrial Greenway overlay zone encourages and promotes the development of river-dependant and river-related industries which strengthen the economic viability of Portland as a marine shipping and industrial harbor, while preserving and enhancing the riparian habitat and providing public access where practical. The Guild's Lake Industrial Sanctuary plan district fosters the preservation and growth of this premier industrial area adjacent to Portland's central city. The provisions of this plan district protect the area from incompatible uses which threaten the district's integrity, stability and vitality and compromise its transportation system.

Land Use History: City records indicate that prior land use reviews include the following:

V 14-65: Street Vacation request for a portion of NW Doane Avenue, approved with conditions in 1965;

LUR 00-00003 GW HS: Greenway Review and Hazardous Substance Review for the construction of a new inter-company manifold to serve petroleum distributors in the area. Approved with conditions of approval; and

LUR 01-00517 GW: Greenway Review for a sheet pile wall containment facility for the Tosco site, with conditions of approval requiring a Site Development permit to demonstrate compliance with the Greenway Landscaping standards.

Agency Review: A "Notice of Proposal in Your Neighborhood" was mailed **January 17, 2003**. The following Bureaus have responded:

The *Urban Forestry Division of Portland Parks and Recreation* has responded with a statement that this site has been recently reviewed during building plan review. The City Forester notes that there are not tree issues here and no room for additional street trees. Exhibit E-1 contains staff contact information.

The *Bureau of Environmental Services* has reviewed the proposal, and provided a response from the Development Services, Watershed Planning, and Source Control Sections. The proposed adjustment to eliminate landscaping upgrades appears to have no impact to existing BES facilities at this time, and no objection to approval of the proposal has been raised. Exhibit E-2 contains staff contact and additional information.

The *Development Review Division of Portland Transportation* has reviewed the proposal for conformance with adopted policies, street designations, Title 17, and for potential impacts upon transportation services. No objection to approval of the proposal has been raised in the response. Exhibit E-3 contains staff contact and additional information.

Neighborhood Review: A "Notice of Proposal in Your Neighborhood" was mailed **January 17, 2003**. No written responses have been received from either the Neighborhood Association or notified property owners in response to the proposal.

ZONING CODE APPROVAL CRITERIA

33.805.040 Adjustment Approval Criteria

Adjustment requests will be approved if the review body finds that the applicant has shown that approval criteria A. through F., below, have been met.

A. Granting the adjustment will equally or better meet the purpose of the regulation to be modified; and

Findings: The applicant has requested an adjustment to waive the requirement for upgrades to nonconforming development on the site. Because the proposal involves a site developed with an existing Industrial Service use, and because the existing vehicle areas on the site are already paved, potential upgrades include landscaped setbacks for surface parking and exterior work activity areas, interior parking lot landscaping and screening. Upgrades related to pedestrian circulation systems, bicycle parking, landscaping in building setbacks, and minimum landscaped areas don't apply to this site due to the IH zoning, the Industrial Service use, and the lack of any abutting residential zones. Completing the required upgrades would involve removing existing paving in areas at the perimeter of the site along NW Doane and NW Front Avenues to install a five-foot-deep landscaped strip, removal of paving and installation of landscaping at the interior of parking areas, and screening of any mechanical equipment visible from the street by walls, fences or vegetation tall enough to screen the equipment.

The relevant purpose statements for the standards which the applicant must meet on this site during upgrades to nonconforming development are listed below:

33.266.130.A (purpose for interior and perimeter parking lot landscaping - relevant excerpts): *The parking area layout standards are intended to promote safe circulation within the parking area, provide for the effective management of stormwater runoff from vehicle areas, and provide for convenient entry and exit of vehicles. The setback and landscaping standards:*

- *Improve and soften the appearance of parking areas;*
- *Reduce the visual impact of parking areas from sidewalks, streets, and especially from adjacent residential zones;*
- *Direct traffic in parking areas;*
- *Shade and cool parking areas;*
- *Reduce the amount and rate of stormwater runoff from vehicle areas;*
- *Reduce pollution and temperature of stormwater runoff from vehicle areas; and*
- *Decrease airborne and waterborne pollution.*

33.140.245.A (purpose for landscaped setbacks of exterior work activity/storage areas - relevant excerpts): *The exterior development standards of this section are intended to assure that exterior display, storage, and work activities:*

- *Will be consistent with the desired character of the zone;*
- *Will not be a detriment to the overall appearance of an employment or industrial area;*
- *Will not have adverse impacts on adjacent properties, especially those zoned residential; and*
- *Will not have an adverse impact on the environment.*

33.140.235.A (purpose for screening): *The screening standards address specific unsightly features which detract from the appearance of an area.*

Parking areas on the site are scattered at the central interior of the site, and along portions of the frontages of both NW Doane Avenue and NW Front Street. The interior parking areas are paved, striped, and limited to approximately 30 parking spaces. The only parking areas visible from the street or sidewalk are those which back out onto either NW Front or NW Doane Avenue. The parking areas interior to the site have been designed in a way that allows safe circulation within the parking area, and allows for the convenient entry and exit of vehicles. Parking areas along NW Front and NW Doane are designed in a way which requires backing out from the parking spaces into the right-of-way, but no concerns about impacts to the right-of-way have been made by Portland Transportation. Northwest Doane is a dead-end street with relatively low traffic volumes, and the parking area along NW Front Avenue is approximately 20 feet from the curb at the edge of the roadway, allowing for safer entry, exit and circulation of vehicles within the parking area.

The applicant states that installation of landscaping planters at the site would decrease the pollution control effectiveness of the facility by puncturing the asphalt seal. The site currently has a Spill Prevention Control and Countermeasure Plan (SPCC) and a Storm Water Pollution Control Plan (SWPCP). Both plans are federally mandated and approved, and both intend to minimize or eliminate pollution emanating from this facility. To this end, all traffic and parking areas are paved to form an impenetrable seal. Transfer areas are sloped to direct any spills or runoff to a process water system that treats all liquids (API separator, air flotation) prior to discharge to the sanitary sewer. Non-transfer areas direct any spills or runoff to the stormwater system, which treats all liquids (API separator) prior to discharge to the stormwater sewer. Planting areas would compromise the pollution control effectiveness of the facility by puncturing the asphalt seal and interfering with the drainage patterns. The applicant notes that the Facility Coordinator from the Bureau of Environmental Services (Eric DeBerry) for this site has stated that landscape planters do not belong at this facility. The Development Services, Watershed Planning and Source Control Sections of the Bureau of Environmental Services have also raised no objections to the elimination of landscaping requirements at the site given existing pollution control measures. The applicant has included a letter from the Portland Fire Bureau which states that

petroleum facilities have been historically exempt from the placement of trees because of their combustible nature. Landscaping is of concern to the Fire Bureau not only from the trees potentially catching fire but also as a fuel load in the case of a petroleum fire.

Since the September 11, 2001 tragedy, concrete barriers were installed along the Front Avenue and Doane Avenue blast walls to prevent vehicles from being parked adjacent to the walls. Additionally, the U.S. Coast Guard sent out a Pacific Area Directive which requested west coast terminals to remove trees, shrubs and other obstructions adjacent to perimeter fencing and walls (interior and exterior) to allow for unobstructed visibility, and to mitigate the possibility of scaling the walls with the help of trees. The applicant has submitted information indicating that the site must comply with specific security guidelines for Oil Transfer Facilities (CFR Part 154) which include removing obstructions along both the interior and exterior of perimeter fencing, in compliance with U.S. Coast Guard regulations (Exhibit A.2).

The surrounding area is generally developed with other heavy industrial uses, and there are no abutting residential zones or developments. Pedestrian and transit access to the area is extremely limited, due to barriers erected within NW Doane Avenue and St. Helens Road near the site, and because of no nearby transit stops on NW Front Avenue. Adjacent developments also have little or no landscaping, and the overall appearance of the area is dominated by the large petroleum storage tanks, transfer pipelines, and truck loading and maneuvering areas. Waiving the requirement for upgrades to perimeter landscaping around all the tank farms (exterior storage areas), and screening of mechanical equipment will, based on the existing use and nearby development, not significantly detract from the overall appearance of the area, have any significant negative impact on adjacent properties, or have an adverse impact on the environment.

Based on the use of the site as a intensively developed petroleum distribution terminal, existing pollution and stormwater control measures, and concerns regarding fire safety, pollution control, and security, waiving the requirement for nonconforming upgrades on the site in this situation can at least equally meet the above regulatory purpose statements, and this criterion can be met.

B. If in a residential zone, the proposal will not significantly detract from the livability or appearance of the residential area, or if in an OS, C, E, or I zone, the proposal will be consistent with the desired character of the area; and

Findings: The desired character of the area is reflected in the purpose and characteristic statements of the IH zone, relevant excerpts of which are noted below:

33.140.010 General Purpose of the Industrial Zones (relevant excerpts):

The regulations promote areas which consist of uses and developments which will support the economic viability of the specific zoning district and of the City. The regulations protect the health, safety and welfare of the public, address area character, and address environmental concerns. In addition, the regulations provide certainty to property owners, developers, and neighbors about the limits of what is allowed.

33.140.030.D Characteristics of the IH Zone (relevant excerpts):

The development standards are the minimum necessary to assure safe, functional, efficient, and environmentally sound development.

The site is intensely developed with a long-standing petroleum distribution terminal, which is allowed by-right as an Industrial Service use in the IH zone. The facility contributes to the economic viability of Portland through the storage and distribution of gasoline, diesel oil, and heating oil, manufacture and distribution of lube oils, and the storage and distribution of ship bunker fuels. These activities provide employment, and are a prime part of the infrastructure which supports the Portland economy.

The nature of the facility as a petroleum storage and handling facility brings specific security and fire safety issues, including additional security precautions regarding vegetation and obstructions on either side of perimeter fencing at the site. Surrounding uses are also developed with comparable heavy industrial firms and uses, and the appearance of the site today is generally consistent with and comparable to neighboring sites. The applicant currently provides extensive on-site controls to ensure that negative impacts to the environment resulting from contaminated stormwater or accidental materials spills are contained within and treated on the site. Based on these considerations, the proposal is consistent with the desired character of the IH zone, and this criterion can be met.

C. If more than one adjustment is being requested, the cumulative effect of the adjustments results in a project which is still consistent with the overall purpose of the zone; and

Findings: Only one adjustment has been requested. This criterion is not applicable.

D. City-designated scenic resources and historic resources are preserved; and

Findings: There are no City-designated scenic or historic resources on the site. This criterion is not applicable.

E. Any impacts resulting from the adjustment are mitigated to the extent practical; and

Findings: As noted above, potential impacts resulting from the adjustment are mitigated for by existing measures to control stormwater runoff and pollution within the site, and specifically to prevent contaminants from exiting the site through the sanitary or stormwater sewer systems. Eliminating potential fire hazards and fuel sources at the perimeter of the site is a concern expressed by the Portland Fire Bureau, and should result in increased safety for the surrounding area. Because of increasing security concerns for waterfront oil transfer facilities, the security benefits provided by keeping the perimeter fencing at the site free of obstructions helps to mitigate for any detrimental visual impacts to the area. This criterion is met.

F. If in an environmental zone, the proposal has as few significant detrimental environmental impacts on the resource and resource values as is practicable;

Findings: The site is not within an environmental zone. This criterion is not applicable.

DEVELOPMENT STANDARDS

Unless specifically required in the approval criteria listed above, this proposal does not have to meet the development standards in order to be approved during this review process. The plans submitted for a building or zoning permit must demonstrate that all development standards of Title 33 can be met, or have received an Adjustment or Modification via a land use review prior to the approval of a building or zoning permit.

CONCLUSIONS

The applicant has requested an adjustment to waive the requirement to complete nonconforming upgrades on the site. Because of the use of the site as a petroleum distribution terminal in the IH zone, potential upgrades are limited to landscaped setbacks for surface parking and exterior work activity areas, interior parking lot landscaping, and screening. Pedestrian circulation systems are not required in the IH zone, this use does not require any bike parking, there are no abutting residential zones, and the parking areas on the site are

paved. Completing the required upgrades would involve removing existing paving in areas at the perimeter of the site along NW Doane and NW Front Avenues to install a five-foot-deep landscaped strip, removal of paving and installation of landscaping at the interior of parking areas, and screening of any mechanical equipment visible from the street.

The applicant has provided significant documentary evidence that installing landscape planters at the perimeter of the site would decrease the pollution control effectiveness of the site by puncturing the asphalt seal. Removing paving and installing landscaping on the site, given existing pollution and stormwater control measures in place, would compromise the on-site retention and management of pollutants. The applicant has provided information showing that the Bureau of Environmental Services (BES) supports the request to eliminate additional landscaping at the site, and BES has responded to the request with no concerns. The applicant has also provided a letter from the Portland Fire Bureau indicating fire safety concerns about landscaping at the perimeter of the site. Portland Transportation has no objection to approval of the request, and the City Forester has also responded with no objections. Finally, the applicant is required to comply with federal security guidelines for waterfront oil transfer facilities, including guidelines stating that perimeter security fences must be kept clear of all obstructions.

Based on the above considerations, the proposal can at least equally meet the regulatory intent of the standards being waived, is consistent with the desired character of the IH zone, and can adequately mitigate for impacts resulting from the request.

ADMINISTRATIVE DECISION

Approval of an **Adjustment** to waive the requirement to complete upgrades to nonconforming development (33.258.070.D.2) for a petroleum distribution terminal in the IH zone, per the approved site plan, Exhibit C-1, signed and dated January 30, 2003.

Staff Planner: Mark Walhood

Decision rendered by Susan Feldman on January 30, 2003.

Decision filed January 31, 2003

Decision mailed February 4, 2003

This application was submitted on November 7, 2002.

This application was determined to be complete on January 14, 2003.

About this Decision. This land use decision is **not a permit** for development. Permits may be required prior to any work. Contact the Development Services Center at 503-823-7310 for information about permits.

Note: some of the information contained in this report was provided by the applicant. As required by Section 33.800.060 of the Portland Zoning Code, the burden of proof is on the applicant to show that the approval criteria are met. The Bureau of Development Services has independently reviewed the information submitted by the applicant and has included this information only where the Bureau of Development Services has determined the information satisfactorily demonstrates compliance with the applicable approval criteria. This report is the decision of the Bureau of Development Services with input from other City and public agencies.

Conditions of Approval. This approval may be subject to a number of specific conditions, listed above. Compliance with the applicable conditions of approval must be documented in all related permit applications. Plans and drawings submitted during the permitting process must illustrate how applicable conditions of approval are met. Any project elements that are specifically required by conditions of approval must be shown on the plans, and labeled as such.

These conditions of approval run with the land, unless modified by future land use reviews. As used in the conditions, the term "applicant" includes the applicant for this land use review,

any person undertaking development pursuant to this land use review, the proprietor of the use or development approved by this land use review, and the current owner and future owners of the property subject to this land use review.

Appealing this decision. This decision may be appealed to the Adjustment Committee, which will hold a public hearing. Appeals must be filed **by 4:30 PM on February 18th, 2003** at 1900 SW Fourth Ave. Appeals can be filed on the first floor in the Development Services Center until 3 p.m. After 3 p.m., appeals must be submitted to the receptionist at the front desk on the fourth floor. **An appeal fee of \$250 will be charged.** The appeal fee will be refunded if the appellant prevails. Recognized neighborhood associations and low-income individuals appealing a decision for their personal residence may qualify for an appeal fee waiver. Assistance in filing the appeal and information on fee waivers is available from BDS in the Development Services Center. Fee waivers for low-income individuals must be approved prior to filing your appeal; please allow 3 working days for fee waiver approval. Fee waivers for neighborhood associations require a vote of the authorized body of your association. Please see the appeal form for additional information.

The file and all evidence on this case are available for your review by appointment only. Please contact the receptionist at 503-823-7702 to schedule an appointment. I can provide some information over the phone. Copies of all information in the file can be obtained for a fee equal to the cost of services. Additional information about the City of Portland, city bureaus, and a digital copy of the Portland Zoning Code is available on the internet at www.ci.portland.or.us.

Attending the hearing. If this decision is appealed, a hearing will be scheduled, and you will be notified of the date and time of the hearing. The decision of the Adjustment Committee is final; any further appeal must be made to the Oregon Land Use Board of Appeals (LUBA) within 21 days of the date of mailing the decision, pursuant to ORS 197.620 and 197.830. Contact LUBA at 550 Capitol St. NE, Salem, Oregon 97310 or phone 1-503-373-1265 for further information.

Failure to raise an issue by the close of the record at or following the final hearing on this case, in person or by letter, may preclude an appeal to the Land Use Board of Appeals (LUBA) on that issue. Also, if you do not raise an issue with enough specificity to give the Adjustment Committee an opportunity to respond to it, that also may preclude an appeal to LUBA on that issue.

Recording the final decision. Before you proceed with your project, you are required to record the final Land Use Review decision with the Multnomah County Recorder. A building or zoning permit will be issued only after the final decision is recorded. The final decision may be recorded on or after **(February 19th, 2003 - the day following the last day to appeal)**.

The applicant, builder, or a representative may record the final decision as follows:

- **By Mail:** Send the two recording sheets (sent in separate mailing) and the final Land Use Review decision with a check made payable to the Multnomah County Recorder to: Multnomah County Recorder, P.O. Box 5007, Portland OR 97208. The recording fee is identified on the recording sheet. Please include a self-addressed, stamped envelope.
- **In Person:** Bring the two recording sheets (sent in separate mailing) and the final Land Use Review decision with a check made payable to the Multnomah County Recorder to the County Recorder's office located at 501 SE Hawthorne Boulevard, #158, Portland OR 97214. The recording fee is identified on the recording sheet.

For further information on recording, please call the County Recorder at 503-988-3034.

Expiration of this approval. This decision expires three years from the date the final decision is rendered unless:

- A building permit has been issued, or

- The approved activity has begun, or
- In situations involving only the creation of lots, the land division has been recorded.

Applying for your permits. A building permit, occupancy permit, or development permit must be obtained before carrying out this project. At the time they apply for a permit, permittees must demonstrate compliance with:

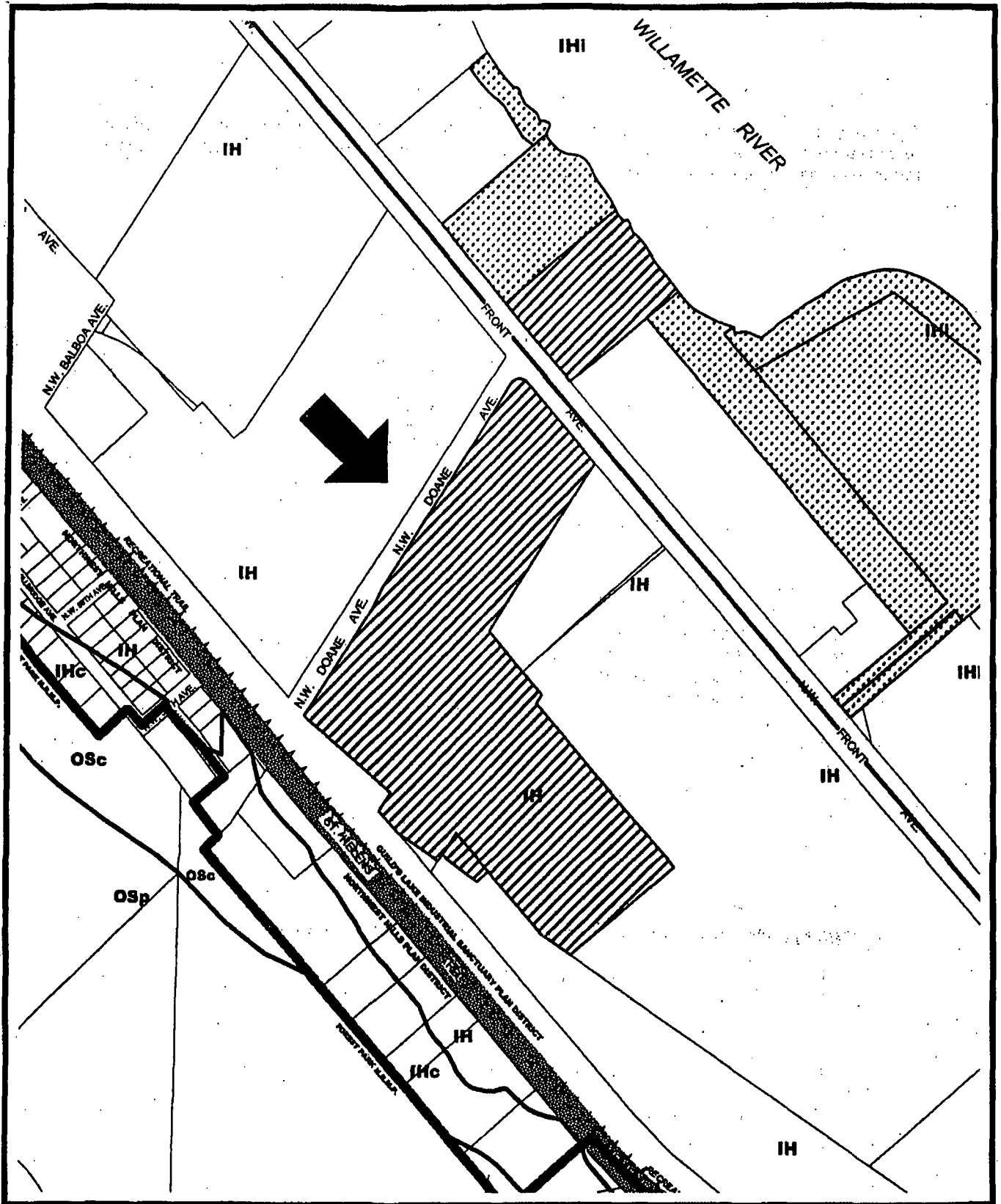
- All conditions imposed here.
- All applicable development standards, unless specifically exempted as part of this land use review.
- All requirements of the building code.
- All provisions of the Municipal Code of the City of Portland, and all other applicable ordinances, provisions and regulations of the City.

EXHIBITS

NOT ATTACHED UNLESS INDICATED

- A. Applicant's Statements
 - 1. Original application narrative with letter from Portland Fire Bureau
 - 2. Revised application narrative with attachments (e-mail correspondence, U.S. Coast Guard Security Guidelines, CFR excerpt, Spill Prevention Control and Countermeasure Plan, Storm Water Pollution Control Plan)
- B. Zoning Map (attached)
- C. Plans/Drawings:
 - 1. Overall Site Plan and Vicinity Map (attached)
 - 2. Partial Site Plan - Tank Farm #1 area
 - 3. Partial Site Plan - Tank Farm #2 area
 - 4. Partial Site Plan - Tank Farm #3 area
 - 5. Full Set of Plans at 11" x 17"
- D. Notification information:
 - 1. Mailing list
 - 2. Mailed notice
- E. Agency Responses:
 - 1. Urban Forestry Division of Portland Parks and Recreation
 - 2. Bureau of Environmental Services
 - 3. Development Review Division of Portland Transportation
- F. Correspondence:
 - 1. General Case Correspondence Log
 - 2. Incomplete Letter from staff to applicant - November 27, 2002
- G. Other:
 - 1. Original LU Application Form, Tax Account information and receipt
 - 2. Site History Research

The Bureau of Development Services is committed to providing equal access to information and hearings. If you need special accommodations, please call 503-823-7702 (TTY 503-823-6868).



ZONING



Site



Property also owned



NORTH

This site lies within the:
GUILD'S LAKE INDUSTRIAL SANCTUARY PLAN DISTRICT

File No. LU 02-150064 AD

1/4 Section 2523, 2423

Scale 1 inch = 300 feet

State-Id 1N1E18C -00900+

Exhibit B (Jan 14, 2003)

COP0019243

LETTER OF TRANSMITTAL

To:	Ms. Sandy Browning	From:	Scott Miller
Company:	Intergral Consulting, Inc. 1205 West Bay Drive NW Olympia, WA 98502-4670	Date:	April 5, 2004

Re:	Documents – Willbridge Terminal Group	Project No.	
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Dear Ms. Browning,

At the request of the Willbridge Terminals Group, and in accordance with the request from the Lower Willamette Group (LWG), we are providing you with three copies of the *Preliminary Source Control Evaluation for the Willbridge Facility*, dated April 24, 2003. This “upland environmental” document was submitted to the Oregon Department of Environmental Quality, on behalf of the Willbridge Terminals Group, in April 2003.

If you have questions regarding this submittal, please contact Scott Miller at 503.639.8098.

- c. Marty Cramer – ConocoPhillips (without attachments) ✓
Steve Osborn – Kinder Morgan (without attachments)
Gerald O'Regan – ChevronTexaco (without attachments)
Ed Platt – Shell (without attachments)
Gerry Koschal – Red Hills Environmental (without attachments)



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503.639.8098 800.477.7411

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LETTER OF TRANSMITTAL

To:	Nick Varnum, R.G.	From:	Scott Miller
Company:	Integral Consulting, Inc. 811 SW Naito Parkway Suite 430 Portland, Oregon 97204	Date:	August 20, 2004
Re:	LWG Requested Site Summary Willbridge Terminal (Revised)	Project No.	PTWB-01I-2

Dear Mr. Varnum:

On behalf of the Willbridge Terminal Group, consisting of ConocoPhillips, ChevronTexaco, and Kinder Morgan Liquid Terminals, we are pleased to provide the Lower Willamette Group with this revised copy of the CSM / Site Summary for the Willbridge Terminals Site. We are providing you with one hard copy of the text and figures 4 and 5, and a compact disk with all the files (text, figures, and tables).

The Willbridge Terminal Group members' requests the opportunity to review and comment on any changes to this CSM / Site Summary. If you have questions, please contact Scott Miller or Kelly Kline at 503/639-8098.

cc. Gerald O'Regan – ChevronTexaco (cd only)
Charles Lambert – Chevron Texaco (cd only) ✓
Marty Cramer – ConocoPhillips (cd only) ✓
Steve Osborn – ConocoPhillips (cd only)
Mark Schneider – Perkins Coie (cd only)
Gerry Koschal – Red Hills Environmental (cd only)

A member of:



COP0019246